

Project Number
17.01977



HUBBELL
Lighting

Date
7/31/2017

LAB 4

Test Sample Description

Catalog Number: P7279-3030K9

Description: 4ft Wrap-Around Low-Profile LED Cloud

Test Method: IES LM-79-08 § 10

Preburn Time: 64:20

Time To Stabilize: 0:30

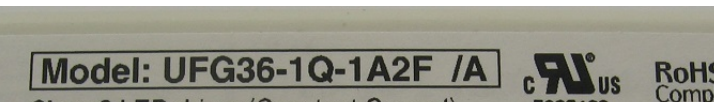
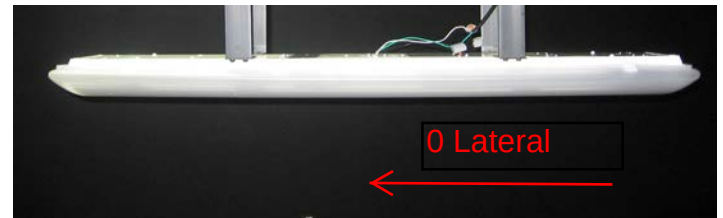
Total Operating Time: 65:10

Input Voltage (Volts): 120.0

Input Current (Amps): 0.334

Input Wattage (Watts): 39.6

Ambient Temp (°C): 24.7



Hubbell Lighting, Inc.

701 Millennium Boulevard
Greenville, SC 29607
www.hubbellighting.com

Checked: R. HALL
Approved: P. McCARTHY



This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



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PREPARED FOR: PROGRESS
CATALOG NUMBER: P7279-3030K9
LUMINAIRE: 4ft Wrap-Around Low-Profile LED Cloud LAMP:
90- 3000K LEDs
BALLAST:1- Lighting Products LTD - Programmed to 1200mA
BALLAST CAT. NO.: UFG36-1Q-1A2F/A

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	852	852	852	852	852
5	849	848	849	850	849
15	816	816	819	823	825
25	752	754	761	771	775
35	663	668	680	694	700
45	556	562	577	598	607
55	435	442	461	488	499
65	303	313	338	370	383
75	172	185	221	258	272
85	57	82	126	162	175
90	18	49	90	124	136
95	17	31	65	94	105
105	21	23	36	55	63
115	23	24	30	39	43
125	24	27	32	38	40
135	25	31	34	38	40
145	27	33	34	38	40
155	29	33	37	39	39
165	33	31	35	36	39
175	36	34	32	32	29
180	36	36	35	32	34

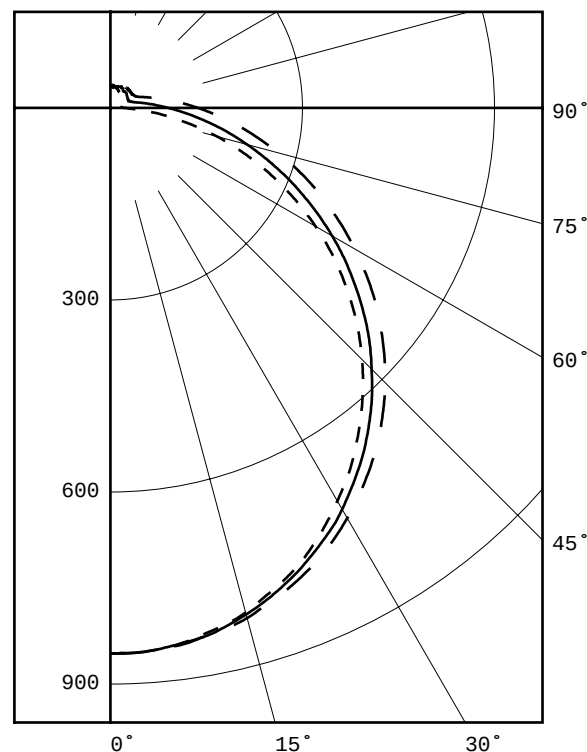
FLUX

81
231
351
426
447
415
338
235
134
70
42
32
29
26
22
16
10
3

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	663	22.8
0- 40	1089	37.4
0- 60	1951	67.1
0- 90	2658	91.4
90-120	143	4.9
90-130	172	5.9
90-150	221	7.6
90-180	250	8.6
0-180	2908	100.0

EFFICACY = 73.4 Lm/W
CIE TYPE - DIRECT



LEGEND:
0-deg: - - - - -
45-deg: - - - - -
90-deg: - - - - -



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PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.2 1.3

PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 50.500 10.000
HEIGHT OF SIDE : 2.375 2.375

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	2304.	2084.	2128.
55	2180.	1916.	1993.
65	1998.	1714.	1842.
75	1735.	1496.	1709.
85	1305.	1344.	1658.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5
0.0	852	852	852	852	852	852	852	852	852	852	852	852	852	852
2.5	852	851	852	851	852	852	851	851	852	851	852	850	851	852
5.0	849	847	849	847	849	848	849	847	849	848	848	848	847	850
7.5	844	842	843	842	843	843	843	843	844	843	843	842	842	844
10.0	835	836	835	836	835	836	835	836	836	836	836	836	837	836
12.5	827	825	826	826	826	827	826	827	826	827	827	827	827	828
15.0	816	813	815	814	816	814	816	814	817	816	817	816	817	818
17.5	801	800	801	801	801	801	801	802	803	803	803	803	804	805
20.0	787	784	787	785	787	786	787	786	789	789	788	789	788	792
22.5	771	768	770	770	769	771	770	771	772	772	773	773	774	775
25.0	752	749	752	750	752	751	752	753	755	754	755	756	755	759
27.5	731	730	731	731	732	732	732	733	735	735	736	736	737	739
30.0	709	708	710	709	710	711	711	712	713	714	715	715	716	718
32.5	687	686	687	687	687	688	689	690	691	692	692	693	694	696
35.0	663	662	663	663	663	664	665	666	667	668	669	670	671	673
37.5	637	636	638	637	638	639	639	641	642	643	644	645	646	648
40.0	611	610	611	611	612	613	613	615	616	617	618	619	620	622
42.5	584	583	584	584	585	585	586	587	589	590	591	592	593	596
45.0	556	555	556	556	557	557	558	559	561	562	563	564	566	568
47.5	527	526	527	527	528	529	530	531	532	534	535	536	538	540
50.0	497	496	497	497	498	499	500	501	503	504	505	507	508	510
52.5	466	466	467	467	467	468	469	471	472	473	475	476	478	480
55.0	435	434	435	435	436	437	438	439	441	442	443	445	447	449
57.5	403	402	403	403	404	405	406	407	409	410	412	413	415	418
60.0	370	369	370	371	371	373	373	375	377	378	379	381	383	386
62.5	337	336	337	338	338	340	341	342	344	345	347	349	351	354
65.0	303	303	304	304	305	306	307	309	311	313	314	316	319	322
67.5	270	270	271	271	272	273	274	276	278	280	282	284	287	290
70.0	237	237	238	238	239	241	242	244	246	248	250	253	256	259
72.5	204	204	205	205	207	208	210	212	214	217	219	222	225	229
75.0	172	171	172	173	174	176	178	180	183	185	188	192	195	200
77.5	140	140	141	142	144	145	147	150	153	156	160	163	167	172
80.0	110	110	111	112	114	116	118	121	125	128	132	137	141	146
82.5	82	83	83	85	86	89	92	95	99	103	108	112	117	122
85.0	57	57	58	60	62	65	69	73	77	82	86	91	96	101
87.5	35	35	37	39	42	46	50	54	59	63	68	73	78	83
90.0	18	19	22	25	29	32	36	40	45	49	53	58	62	67
92.5	17	17	18	19	21	24	27	31	34	38	42	46	50	55
95.0	17	17	18	18	19	20	22	25	28	31	34	38	41	45
97.5	18	17	18	18	19	19	20	22	24	26	28	31	34	37
100.0	19	18	18	18	19	19	20	21	22	23	25	27	30	32
102.5	20	19	19	19	19	20	20	21	22	22	24	25	27	29
105.0	21	19	20	20	20	20	21	21	22	23	23	24	25	27
107.5	21	20	20	21	21	21	21	22	22	23	23	24	25	26
110.0	22	21	21	22	22	22	22	22	23	23	24	24	25	26
112.5	22	22	22	23	23	22	23	23	23	24	24	25	26	26
115.0	23	23	23	23	24	24	23	24	24	24	25	25	26	27
117.5	23	24	24	24	25	25	24	24	25	25	26	26	27	27
120.0	24	24	24	25	25	26	25	25	25	26	26	27	27	28
122.5	24	25	25	25	26	27	26	26	26	26	27	27	28	28
125.0	24	25	26	26	26	27	27	27	27	27	27	28	29	29
127.5	24	25	26	26	27	27	28	28	28	27	28	28	29	30
130.0	24	25	26	27	27	28	29	29	29	29	28	28	29	30
132.5	24	26	27	28	28	28	29	30	30	30	30	29	30	30
135.0	25	26	27	28	29	29	29	30	31	31	31	31	30	30
137.5	25	26	27	28	30	30	30	31	32	32	32	32	32	31
140.0	26	27	27	28	29	30	30	31	32	33	33	33	33	33
142.5	26	27	27	28	29	31	32	32	33	33	34	34	34	34
145.0	27	28	28	28	30	31	32	32	33	33	34	35	35	35
147.5	28	28	28	29	29	30	31	32	32	33	34	35	35	35
150.0	28	28	28	28	29	29	31	32	32	33	34	34	35	36
152.5	29	29	28	28	29	29	30	32	33	33	34	35	35	36
155.0	29	29	28	28	29	29	30	31	32	33	33	34	34	35
157.5	31	30	29	29	29	30	30	30	31	32	33	33	34	34
160.0	32	31	31	30	30	30	30	30	31	32	33	34	34	34

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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5
162.5	32	32	32	31	30	30	30	31	31	31	32	33	33	34
165.0	33	33	33	32	31	31	31	31	31	31	32	32	32	33
167.5	34	34	34	33	32	32	32	32	32	32	32	32	32	32
170.0	34	34	34	34	34	33	32	32	32	32	32	32	32	32
172.5	35	35	35	35	35	34	34	33	33	33	33	33	33	33
175.0	36	36	36	36	36	35	35	35	34	34	34	34	33	33
177.5	36	36	36	36	36	36	36	36	36	36	35	35	35	35
180.0	36	36	36	36	36	36	36	36	36	36	36	36	35	35



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CANDELA DISTRIBUTION
LATERAL ANGLE

	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5
0.0	852	852	852	852	852	852	852	852	852	852	852	852	852	852
2.5	851	851	852	851	852	852	851	852	852	851	851	853	851	853
5.0	847	850	847	850	849	848	849	849	849	848	848	850	849	850
7.5	843	844	843	844	844	845	844	845	844	845	844	846	844	846
10.0	837	837	837	837	839	837	839	837	838	838	839	839	839	839
12.5	828	829	828	829	830	829	830	830	830	830	831	832	831	831
15.0	817	818	818	819	819	820	819	821	820	821	820	823	821	823
17.5	805	806	806	807	807	808	808	809	809	810	809	811	810	812
20.0	789	793	791	794	793	794	795	795	796	796	796	799	798	799
22.5	775	777	776	778	778	780	780	781	781	782	782	785	784	786
25.0	757	760	759	761	761	764	762	766	765	767	766	770	768	771
27.5	739	741	741	743	744	744	746	747	748	749	750	752	752	754
30.0	718	720	721	722	724	725	726	727	728	730	731	733	733	735
32.5	697	699	699	701	702	704	705	707	708	710	711	713	713	715
35.0	673	675	676	678	680	681	683	684	686	688	689	691	692	694
37.5	649	651	652	654	656	657	659	661	663	664	666	668	669	672
40.0	623	626	626	629	631	632	634	637	638	640	642	645	646	648
42.5	597	599	600	602	605	606	608	611	613	615	617	620	621	624
45.0	569	572	573	575	577	579	582	584	586	589	591	594	595	598
47.5	541	544	545	548	550	552	554	557	560	562	564	567	569	572
50.0	512	514	516	519	521	523	526	529	531	534	536	540	541	545
52.5	481	484	486	489	491	494	497	500	502	505	508	511	513	516
55.0	451	453	455	458	461	464	467	470	473	476	479	482	484	488
57.5	419	422	424	428	431	433	437	440	443	446	449	453	455	458
60.0	388	391	393	396	400	403	406	410	413	416	419	423	425	429
62.5	356	359	362	365	369	372	376	380	383	386	390	393	396	399
65.0	324	328	331	334	338	341	345	349	353	356	360	364	366	370
67.5	293	297	300	304	308	311	315	319	323	327	331	335	337	341
70.0	262	266	270	274	278	282	286	291	295	299	302	306	309	313
72.5	232	237	241	245	249	253	258	262	266	270	274	278	281	285
75.0	203	208	212	217	221	226	230	235	239	243	247	251	254	258
77.5	176	181	185	190	195	199	204	209	213	217	221	225	228	232
80.0	150	155	160	165	170	174	179	184	188	192	196	200	203	207
82.5	127	132	137	142	147	151	156	161	165	169	173	177	180	184
85.0	106	111	116	121	126	131	135	140	144	148	152	156	159	162
87.5	87	92	97	102	107	112	116	121	125	129	132	136	139	142
90.0	72	77	81	86	90	95	99	103	107	111	115	118	121	124
92.5	59	63	68	72	76	80	85	89	92	96	99	103	105	108
95.0	49	53	57	61	65	68	72	76	79	83	86	89	92	94
97.5	41	44	48	51	55	58	62	65	68	71	74	77	79	82
100.0	35	38	41	44	47	50	53	56	59	61	64	67	69	71
102.5	31	33	35	38	40	43	46	48	51	53	56	58	60	62
105.0	28	30	32	34	36	38	40	43	45	47	49	51	53	55
107.5	27	28	30	31	33	35	36	38	40	42	44	45	47	49
110.0	27	28	29	30	31	32	34	35	37	38	40	41	43	44
112.5	27	28	29	29	30	31	33	34	35	36	37	39	40	41
115.0	27	28	29	30	30	31	32	33	34	35	36	37	38	39
117.5	28	28	29	30	31	31	32	33	34	35	35	36	37	38
120.0	28	29	29	30	31	32	32	33	34	35	35	36	37	38
122.5	29	29	30	31	31	32	33	33	34	35	35	36	37	38
125.0	29	30	31	31	32	32	33	34	34	35	36	36	37	38
127.5	30	31	31	32	32	33	34	34	35	35	36	37	37	38
130.0	31	31	32	32	33	34	34	35	35	36	36	37	37	38
132.5	30	32	32	33	34	34	35	35	36	36	37	37	38	38
135.0	31	31	32	34	34	35	35	36	36	37	37	38	38	38
137.5	31	32	32	32	34	35	35	36	36	37	37	38	38	39
140.0	32	32	32	33	33	34	35	36	37	37	38	38	38	39
142.5	34	34	34	33	33	34	34	35	35	36	38	38	38	39
145.0	35	35	35	35	34	34	34	35	35	35	36	36	37	38
147.5	36	36	36	36	36	36	35	35	35	35	36	36	36	37
150.0	36	36	36	36	36	37	37	37	36	36	36	36	36	36
152.5	36	37	37	37	37	37	37	37	38	38	38	38	37	37
155.0	35	35	36	37	37	37	37	38	38	38	38	39	39	39
157.5	34	35	35	36	36	37	37	38	38	38	38	39	39	39
160.0	34	35	35	35	35	36	36	37	37	38	38	38	39	39

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CANDELA DISTRIBUTION
LATERAL ANGLE

	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5
162.5	34	34	34	35	35	36	36	36	36	36	37	37	38	38
165.0	33	34	34	34	35	35	36	36	36	36	36	36	36	36
167.5	32	33	33	34	34	34	35	35	35	35	36	36	36	36
170.0	32	32	32	33	33	33	33	34	34	34	35	35	35	35
172.5	33	33	32	32	32	32	32	32	32	32	32	32	33	33
175.0	33	33	33	33	32	32	32	32	32	32	32	32	32	32
177.5	35	34	34	34	34	34	34	34	33	33	32	32	32	32
180.0	35	35	35	35	35	35	35	35	34	34	34	34	33	32



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LATERAL ANGLE

	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5	90.0
0.0	852	852	852	852	852	852	852	852	852
2.5	851	851	852	852	851	851	853	851	852
5.0	849	848	850	849	849	848	850	847	849
7.5	845	845	845	845	845	845	846	845	846
10.0	840	838	841	839	838	840	839	839	839
12.5	832	832	832	833	832	832	833	832	833
15.0	823	822	823	824	823	822	824	823	825
17.5	812	811	813	813	812	813	813	813	813
20.0	800	799	801	801	801	800	802	800	802
22.5	786	786	787	787	787	788	788	787	789
25.0	771	771	772	773	773	773	774	773	775
27.5	755	754	756	756	756	757	757	757	758
30.0	736	736	738	738	738	739	739	739	740
32.5	717	717	719	719	719	720	720	720	721
35.0	696	696	698	698	699	699	700	699	700
37.5	673	674	676	676	677	677	678	678	679
40.0	650	651	653	653	654	655	655	655	656
42.5	625	626	628	629	630	630	631	631	632
45.0	600	601	603	604	604	605	606	606	607
47.5	574	575	577	578	579	580	580	580	581
50.0	547	548	550	551	552	553	554	554	554
52.5	519	520	522	523	524	525	526	526	527
55.0	490	491	494	495	496	497	498	498	499
57.5	461	462	465	466	467	468	469	469	470
60.0	431	433	436	437	438	439	440	440	441
62.5	402	404	407	408	409	411	411	412	412
65.0	373	375	377	379	380	382	382	383	383
67.5	344	346	349	350	351	353	354	354	355
70.0	316	318	321	322	324	325	326	326	327
72.5	288	290	293	294	296	297	298	298	299
75.0	261	263	265	267	269	270	271	271	272
77.5	235	237	240	241	243	244	245	245	245
80.0	210	212	215	216	218	219	220	220	221
82.5	186	189	191	193	194	195	196	197	197
85.0	165	167	169	171	172	173	174	175	175
87.5	145	147	149	151	152	153	154	154	155
90.0	127	129	131	133	134	135	136	136	136
92.5	111	113	115	116	117	118	119	119	120
95.0	97	98	100	102	103	104	105	105	105
97.5	84	86	87	89	90	91	92	92	92
100.0	73	75	76	78	79	80	80	81	81
102.5	64	65	67	68	69	70	70	71	71
105.0	56	57	59	60	61	62	62	62	63
107.5	50	51	52	53	54	55	55	56	56
110.0	45	46	47	48	49	50	50	50	50
112.5	42	43	44	44	45	46	46	46	46
115.0	40	40	41	42	42	43	43	43	43
117.5	39	39	40	40	41	41	41	41	42
120.0	38	39	39	40	40	40	41	41	41
122.5	38	39	39	39	40	40	40	40	40
125.0	38	39	39	39	40	40	40	40	40
127.5	38	39	39	40	40	40	40	40	40
130.0	39	39	39	40	40	40	40	40	40
132.5	39	39	39	40	40	40	40	40	40
135.0	39	39	40	40	40	40	40	40	40
137.5	39	39	40	40	40	40	40	40	40
140.0	39	39	40	40	40	40	40	40	40
142.5	39	39	39	40	40	40	40	40	40
145.0	39	39	40	40	40	40	40	40	40
147.5	37	37	37	38	38	38	38	39	39
150.0	37	37	37	37	37	37	37	38	38
152.5	37	37	37	37	37	37	37	37	37
155.0	39	39	39	39	39	39	38	39	39
157.5	39	39	39	39	39	39	39	39	39
160.0	40	40	40	40	40	40	40	40	40

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



HUBBELL
Lighting

701 Millenium Blvd
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CANDELA DISTRIBUTION
LATERAL ANGLE

	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5	90.0
162.5	39	39	40	40	40	40	40	40	40
165.0	37	37	38	38	39	39	40	40	39
167.5	36	36	36	37	37	37	38	39	39
170.0	35	35	35	35	35	35	35	35	34
172.5	33	33	32	32	32	32	31	31	31
175.0	32	33	33	32	31	29	29	29	29
177.5	32	31	30	30	30	30	30	29	28
180.0	32	31	31	31	31	31	32	33	34



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**5-DEGREE
ZONAL LUMEN SUMMARY**

0- 5	20
5- 10	60
10- 15	98
15- 20	133
20- 25	163
25- 30	188
30- 35	207
35- 40	219
40- 45	224
45- 50	223
50- 55	215
55- 60	200
60- 65	181
65- 70	157
70- 75	131
75- 80	104
80- 85	78
85- 90	56
90- 95	40
95-100	30
100-105	23
105-110	19
110-115	16
115-120	15
120-125	15
125-130	14
130-135	14
135-140	13
140-145	12
145-150	10
150-155	9
155-160	7
160-165	6
165-170	4
170-175	2
175-180	1

**10-DEGREE
ZONAL LUMEN SUMMARY**

0- 10	81
0- 20	312
0- 30	663
0- 40	1089
0- 50	1536
0- 60	1951
0- 70	2289
0- 80	2523
0- 90	2658
0-100	2728
0-110	2769
0-120	2801
0-130	2830
0-140	2856
0-150	2878
0-160	2895
0-170	2904
0-180	2908



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	105	100	95	91	102	97	92	89	91	87	84	86	83	80	81	78	76	73
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	66	63	60
3	87	75	67	60	83	73	65	59	69	62	57	65	59	55	61	57	53	50
4	79	67	58	51	76	65	56	50	61	54	48	58	52	47	55	49	45	42
5	73	59	50	43	70	58	49	43	55	47	41	52	45	40	49	43	39	37
6	67	53	44	38	64	52	43	37	49	42	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	39	33	45	37	32	42	36	31	40	35	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	29	25	34	29	24	22
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	20

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE
BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES
ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

Project Number
17.01977



HUBBELL
Lighting

Date
7/31/2017

Goniophotometer Calibration

Calibration Lamp : Osram ST8-HA4-250-840 22 W/4000 K

Lamp Number: RM B6-28

Ballast: Vossloh Schwabe LN 36.149

Ballast Number: RM B6-28

Calibration Voltage/Frequency: 220Vac / 50hz

Total Luminous Flux: 2463

Calibration Date: 01/19/2017

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	LMT/GO-DS 1600 Lab 4- Test Dist.: 31.0'	10B6231	02/17/2019
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27074V	11/02/2017
<i>Power Source</i>	Chroma / 61604	616040003897	N/A
<i>Thermometer</i>	LMT / ATS-4Ch	10B623-3	12/14/2017

Hubbell Lighting, Inc.

701 Millennium Boulevard
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This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.