

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P31444

Luminaire Tested: **PD6H218E-62HWWC_18DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31444
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H218E-62HWWC_18DTT
Description: HALO 6 INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL LAMP. PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM, SLOTS COVERED.
Light Source: (2) GE G24Q-2 SINGLE END FOUR PIN BASE DTT CFL LAMP 3000K F18DBX/SPX830/4P 18 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST Sylvania QTP 1/2x18CF/UNV/DM

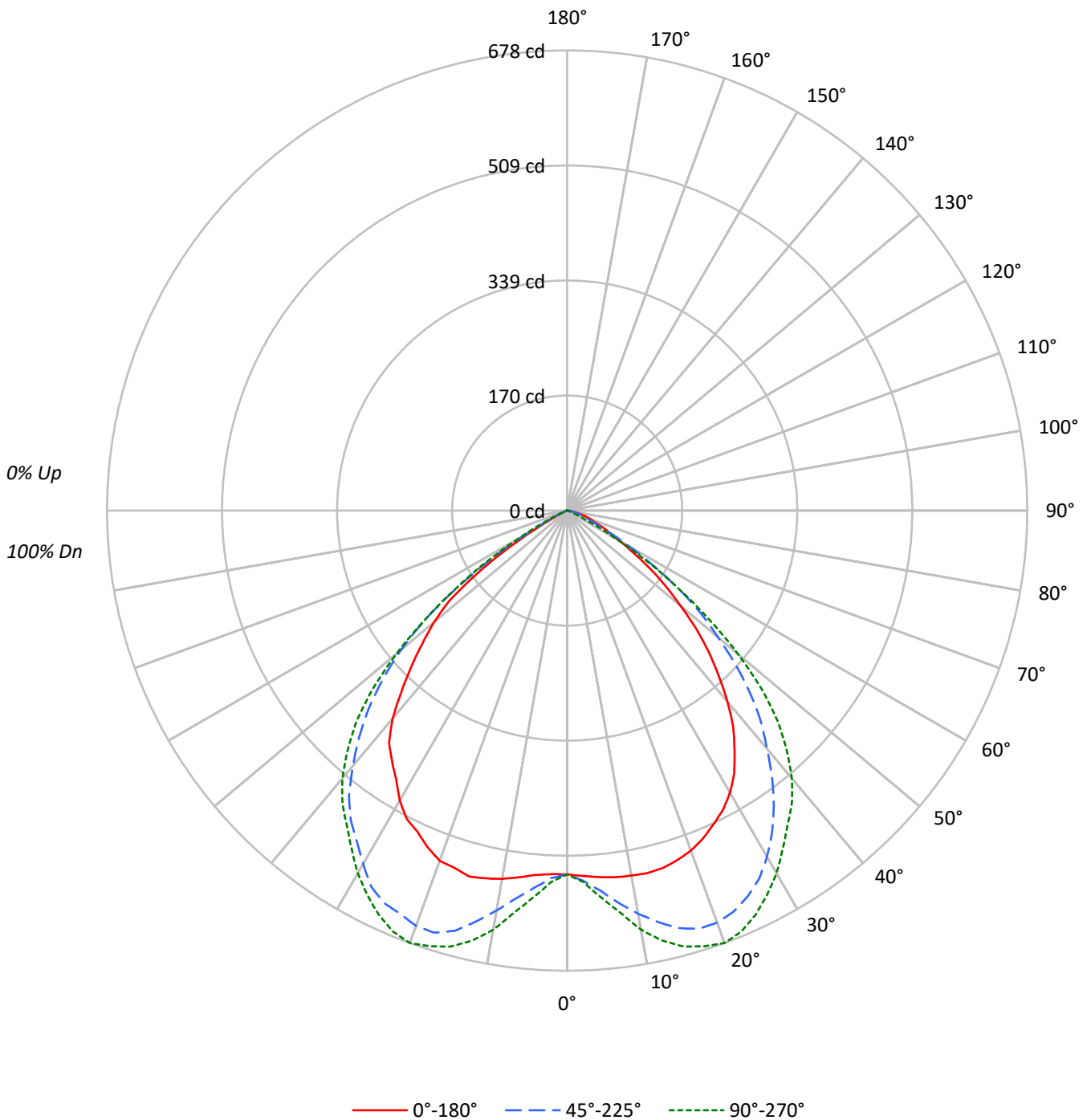
Summary

Lumens per Lamp: 1200 (2 lamps)
Luminaire Lumens: 1348.2 lumens
Efficiency: 56.2%
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.55 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 38.4
Input Voltage (V): 120.05
Input Current (A_{in}): 0.3208
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									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	50	30	10	50	30	10	0														
RCR																																						
0	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56																				
1	63	61	59	57	61	59	58	56	57	56	55	55	54	53	53	52	51	50																				
2	58	55	52	49	57	54	51	49	52	50	48	50	48	47	48	47	46	44																				
3	54	49	46	43	53	48	45	42	47	44	42	45	43	41	44	42	40	39																				
4	50	45	40	37	49	44	40	37	43	39	37	41	38	36	40	38	36	35																				
5	47	40	36	33	45	40	36	33	39	35	32	38	34	32	37	34	32	31																				
6	43	37	32	29	42	36	32	29	35	32	29	34	31	29	34	31	28	27																				
7	40	34	29	26	39	33	29	26	32	29	26	32	28	26	31	28	26	25																				
8	38	31	26	23	37	30	26	23	30	26	23	29	26	23	28	25	23	22																				
9	35	28	24	21	34	28	24	21	27	24	21	27	23	21	26	23	21	20																				
10	33	26	22	19	32	26	22	19	25	22	19	25	22	19	24	21	19	18																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26028	26028	26028
5°	25878	27310	25734
10°	25831	29664	26068
15°	25746	31414	26360
20°	25334	32226	26094
25°	24579	31664	25157
30°	23643	30392	24284
35°	21828	28732	22843
40°	19369	27180	21111
45°	16342	24320	17949
50°	12751	19333	15043
55°	9398	12615	10281
60°	6108	5765	3363
65°	4250	1442	835
70°	3082	428	257
75°	2080	297	198
80°	1067	237	237
85°	298	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	54.4	4.0	2.3	0°	536	536	536	536	536	
10°-20°	176.4	13.1	7.3	5°	542	562	572	558	539	52
20°-30°	280.9	20.8	11.7	15°	545	637	665	641	558	154
30°-40°	327.4	24.3	13.6	25°	510	628	657	638	522	235
40°-50°	295.9	21.9	12.3	35°	430	531	566	556	450	268
50°-60°	167.6	12.4	7.0	45°	295	382	439	414	324	226
60°-70°	35.3	2.6	1.5	55°	149	199	200	197	163	133
70°-80°	8.8	0.7	0.4	65°	56	48	19	17	11	57
80°-90°	1.5	0.1	0.1	75°	21	16	3	2	2	23
90°-100°	0.0	0.0	0.0	85°	2	3	0	0	0	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	511.7	38.0	21.3							
0°-40°	839.1	62.2	35.0							
0°-60°	1302.6	96.6	54.3							
0°-90°	1348.2	100.0	56.2							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1348.2	100.0	56.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	536	536	536	536	536	536	536	536	536
2.5°	539	542	546	549	548	544	542	536	536
5°	542	550	562	571	572	565	558	543	539
7.5°	545	560	583	596	597	587	576	555	545
10°	546	570	603	623	627	615	598	571	551
12.5°	547	578	621	645	649	635	620	588	555
15°	545	586	637	663	665	652	641	603	558
17.5°	540	593	646	672	673	665	652	611	552
20°	533	593	646	674	678	663	651	607	549
22.5°	523	587	640	667	671	656	643	599	537
25°	510	573	628	651	657	643	638	585	522
27.5°	497	558	612	630	638	627	625	569	512
30°	480	538	589	609	617	610	601	554	493
32.5°	458	513	562	580	591	584	577	535	469
35°	430	482	531	552	566	562	556	510	450
37.5°	402	450	496	529	544	540	528	479	431
40°	367	413	458	498	515	510	491	441	400
42.5°	331	375	423	461	479	473	454	404	361
45°	295	336	382	419	439	434	414	364	324
47.5°	258	299	337	371	388	386	369	327	289
50°	217	256	290	317	329	332	320	283	256
52.5°	183	216	248	259	264	271	264	235	219
55°	149	174	199	205	200	202	197	175	163
57.5°	115	134	149	149	143	143	132	112	101
60°	89	98	104	95	84	82	69	53	49
62.5°	70	73	70	56	44	41	36	27	25
65°	56	56	48	31	19	16	17	14	11
67.5°	42	43	34	18	7	5	5	5	5
70°	36	34	29	14	5	4	3	3	3
72.5°	28	28	22	10	3	3	3	3	3
75°	21	21	16	6	3	2	2	2	2
77.5°	14	14	11	4	2	2	2	2	2
80°	9	9	8	3	2	2	2	2	2
82.5°	6	6	5	2	1	1	1	1	1
85°	2	2	3	1	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)