

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: P31441

Luminaire Tested: **PD6H226E-62H1GC_26DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31441
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H226E-62H1GC_26DTT
Description: HALO 6 INCH APERTURE LENSED DOWNLIGHT, HORIZONTAL LAMP.
SPECULAR CLEAR TRIM.
Light Source: (2) SYLVANIA G24Q-3 SINGLE END FOUR PIN BASE DTT CFL LAMP
4100K
CF26DD/E/IN/841 26 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
SYLVANIA QTP2x26CF/UNV DM

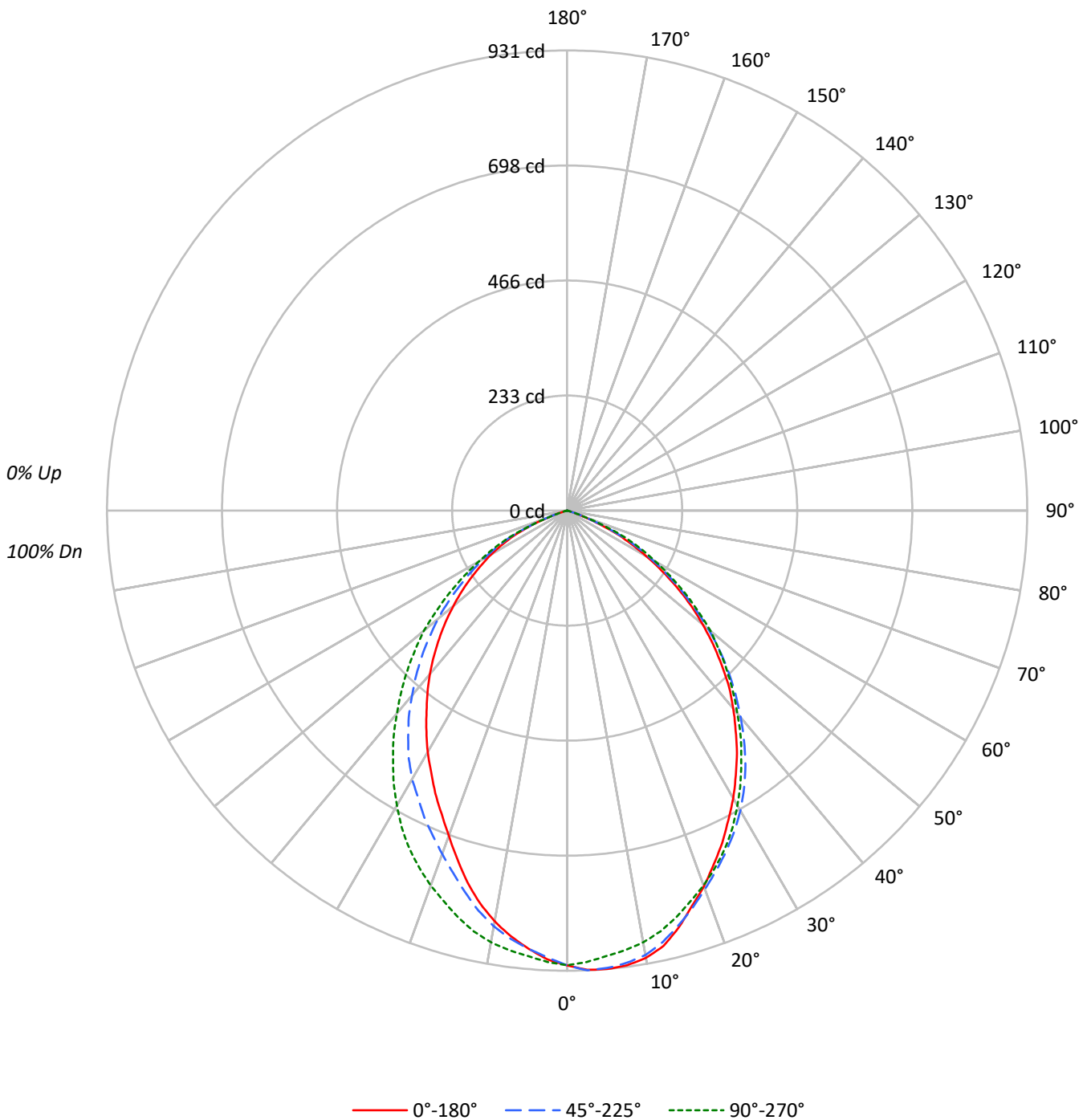
Summary

Lumens per Lamp: 1710 (2 lamps)
Luminaire Lumens: 1723.9 lumens
Efficiency: 50.4%
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.13 / 1.2
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 48.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.40748
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				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
RCR																		
0	60	60	60	60	59	59	59	59	56	56	56	54	54	54	51	51	51	50
1	56	54	53	51	55	53	52	50	51	50	49	49	48	47	47	47	46	45
2	52	49	46	44	51	48	45	43	46	44	42	44	43	41	43	42	40	39
3	48	44	40	37	47	43	40	37	41	39	37	40	38	36	39	37	35	34
4	44	39	35	33	43	39	35	32	37	34	32	36	34	32	35	33	31	30
5	41	36	32	29	40	35	31	29	34	31	28	33	30	28	32	30	28	27
6	38	32	28	25	37	32	28	25	31	28	25	30	27	25	29	27	25	24
7	36	30	26	23	35	29	25	23	28	25	23	28	25	22	27	24	22	21
8	33	27	23	21	33	27	23	21	26	23	20	26	23	20	25	22	20	19
9	31	25	21	19	31	25	21	19	24	21	19	24	21	18	23	20	18	18
10	29	23	20	17	29	23	19	17	23	19	17	22	19	17	22	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44676	44676	44676
5°	44450	43209	42493
10°	43478	41964	39930
15°	41240	40248	36800
20°	38452	38357	33272
25°	35760	36387	30411
30°	33101	33938	27781
35°	30407	31168	25178
40°	27603	28289	22800
45°	24486	25317	20276
50°	20978	22212	17629
55°	17156	18354	14948
60°	12765	14138	12148
65°	8273	9942	8728
70°	2739	3596	3339
75°	297	396	396
80°	119	119	119
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	85.9	5.0	2.5	0°	920	920	920	920	920	
10°-20°	234.7	13.6	6.9	5°	931	929	905	890	890	88
20°-30°	331.2	19.2	9.7	15°	873	869	852	799	779	245
30°-40°	366.0	21.2	10.7	25°	742	761	755	684	631	341
40°-50°	333.9	19.4	9.8	35°	599	629	614	561	496	374
50°-60°	244.1	14.2	7.1	45°	442	461	457	415	366	341
60°-70°	116.8	6.8	3.4	55°	272	282	291	265	237	242
70°-80°	10.9	0.6	0.3	65°	109	119	131	127	115	105
80°-90°	0.4	0.0	0.0	75°	3	3	4	4	4	9
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
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°	651.8	37.8	19.1							
0°-40°	1017.8	59.0	29.8							
0°-60°	1595.8	92.6	46.7							
0°-90°	1723.9	100.0	50.4							
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°	1723.9	100.0	50.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	920	920	920	920	920	920	920	920	920
2.5°	930	919	931	919	914	918	905	910	909
5°	931	918	929	914	905	906	890	892	890
7.5°	928	913	923	907	897	893	874	872	869
10°	919	903	913	898	887	877	854	848	844
12.5°	902	883	894	882	872	857	829	820	814
15°	873	856	869	862	852	835	799	784	779
17.5°	839	826	843	840	829	810	768	747	739
20°	809	794	815	816	807	785	739	714	700
22.5°	775	763	788	791	782	760	711	679	664
25°	742	732	761	765	755	734	684	647	631
27.5°	706	699	732	734	724	703	654	615	596
30°	672	665	701	702	689	670	627	583	564
32.5°	635	630	666	666	653	635	596	551	530
35°	599	594	629	628	614	599	561	517	496
37.5°	560	558	588	588	577	560	526	484	464
40°	523	519	546	547	536	522	488	452	432
42.5°	485	481	504	504	497	482	452	418	399
45°	442	441	461	463	457	441	415	384	366
47.5°	401	401	418	422	417	403	377	350	334
50°	357	357	373	379	378	365	341	318	300
52.5°	316	314	326	333	333	325	303	281	269
55°	272	270	282	289	291	284	265	248	237
57.5°	228	228	239	245	248	244	229	216	206
60°	186	188	198	201	206	205	194	183	177
62.5°	146	149	160	163	170	169	160	151	146
65°	109	109	119	124	131	131	127	120	115
67.5°	64	67	74	78	83	86	83	79	79
70°	32	33	37	40	42	42	43	40	39
72.5°	13	13	15	15	16	18	18	18	18
75°	3	3	3	4	4	4	4	4	4
77.5°	2	2	2	2	2	2	2	2	2
80°	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1
85°	0	0	0	0	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)