

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: P31230

Luminaire Tested: **PD6H142E-62H1GC_26DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31230
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H142E-62H1GC_26DTT
Description: HALO 6-INCH APERTURE LENSED DOWNLIGHT, HORIZONTAL LAMP.
PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM.
Light Source: (1) SYLVANIA G24Q-3 FOUR PIN QUAD CFL LAMP
CF26DD/E/841 26 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
QTP2x26CF/UNV DM

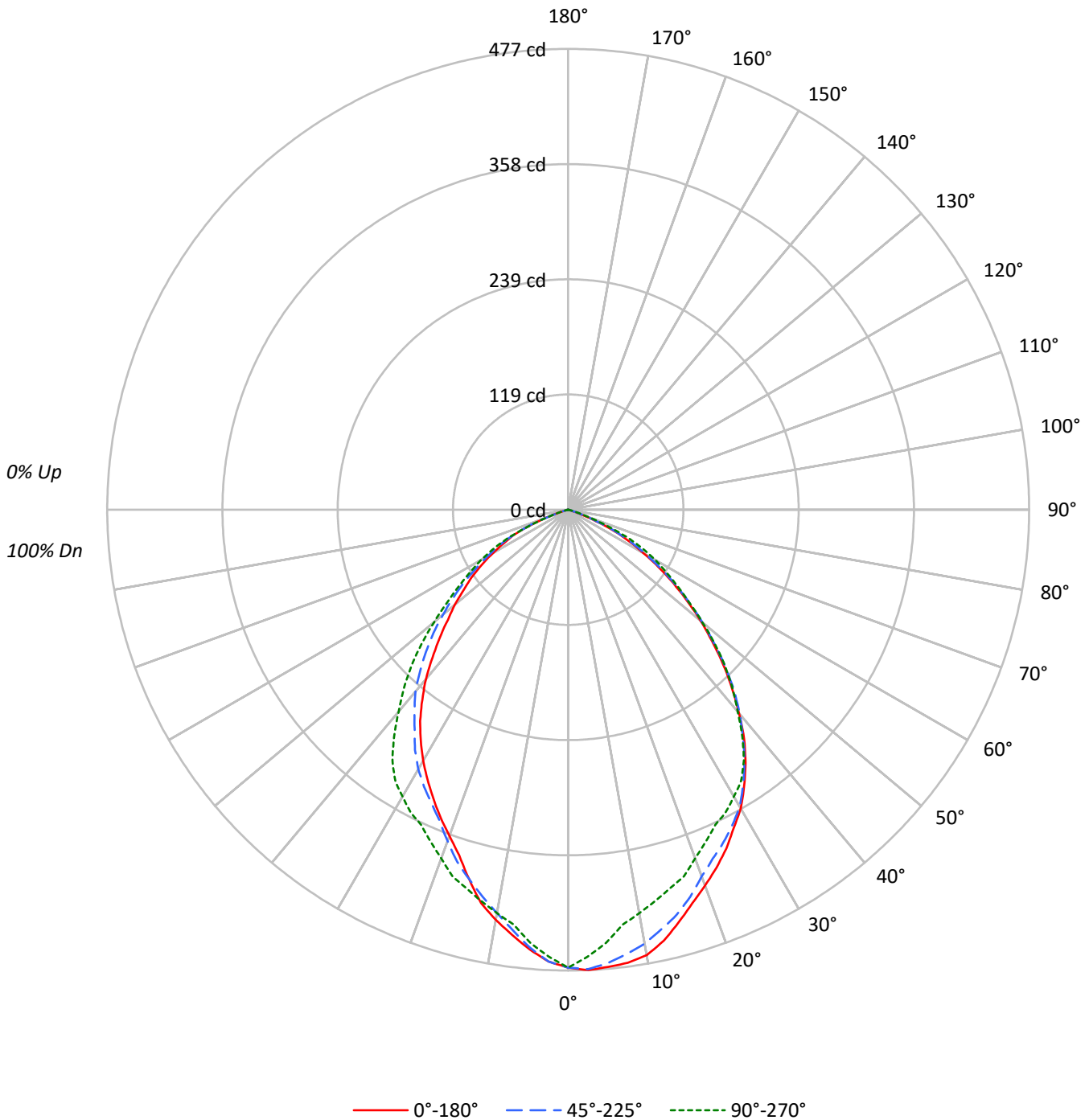
Summary

Lumens per Lamp: 1710 (1 lamp)
Luminaire Lumens: 863.7 lumens
Efficiency: 50.5%
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.09 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 0.52' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25.4
Input Voltage (V): 120.03
Input Current (A_{in}): 0.2121
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	52	52	52	51
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	45	43	41	43	42	40	39
3	48	44	40	38	47	43	40	37	42	39	37	40	38	36	39	37	35	34
4	45	39	36	33	44	39	35	32	38	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	26	38	32	28	25	31	28	25	30	27	25	30	27	25	24
7	36	30	26	23	35	29	25	23	29	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	19	23	21	18	18
10	29	23	20	17	29	23	20	17	23	19	17	22	19	17	22	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23948	23948	23948
5°	23585	22344	22692
10°	23017	20853	21197
15°	21697	19930	19439
20°	20440	18959	17724
25°	19366	18015	16513
30°	18251	17535	15337
35°	16852	16694	14061
40°	15050	14940	12532
45°	13033	13205	10794
50°	10895	11017	9313
55°	8683	9010	7965
60°	6389	7383	6389
65°	4235	5255	4941
70°	1237	1944	2032
75°	102	204	306
80°	122	122	122
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	43.2	5.0	2.5	0°	474	474	474	474	474	
10°-20°	116.5	13.5	6.8	5°	475	471	450	455	457	45
20°-30°	165.6	19.2	9.7	15°	442	434	406	396	396	124
30°-40°	186.9	21.6	10.9	25°	387	380	360	335	330	178
40°-50°	168.1	19.5	9.8	35°	320	318	317	277	267	199
50°-60°	119.2	13.8	7.0	45°	227	230	230	208	188	175
60°-70°	58.3	6.8	3.4	55°	133	136	138	132	122	119
70°-80°	5.8	0.7	0.3	65°	54	56	67	64	63	51
80°-90°	0.1	0.0	0.0	75°	1	2	2	3	3	4
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°	325.3	37.7	19.0							
0°-40°	512.2	59.3	30.0							
0°-60°	799.5	92.6	46.8							
0°-90°	863.7	100.0	50.5							
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°	863.7	100.0	50.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	474	474	474	474	474	474	474	474	474
2.5°	477	477	476	466	463	464	468	472	468
5°	475	475	471	458	450	451	455	460	457
7.5°	473	471	464	445	433	433	439	446	444
10°	468	465	456	434	424	420	424	432	431
12.5°	457	457	445	426	415	409	410	419	417
15°	442	443	434	418	406	399	396	403	396
17.5°	427	425	420	408	398	388	382	384	375
20°	414	411	404	394	384	373	365	363	359
22.5°	401	398	391	381	372	361	348	348	345
25°	387	386	380	371	360	349	335	334	330
27.5°	371	369	368	363	353	340	323	318	315
30°	357	351	355	351	343	329	310	300	300
32.5°	339	332	337	337	333	316	295	282	284
35°	320	313	318	319	317	300	277	263	267
37.5°	299	295	297	298	296	280	261	247	248
40°	275	272	276	275	273	259	246	230	229
42.5°	251	250	254	254	252	240	227	213	208
45°	227	227	230	231	230	221	208	195	188
47.5°	202	204	205	207	206	200	189	176	169
50°	179	179	181	183	181	179	169	159	153
52.5°	155	157	158	158	158	156	150	142	136
55°	133	133	136	136	138	136	132	126	122
57.5°	111	112	114	114	120	117	113	109	106
60°	90	91	93	97	104	100	96	92	90
62.5°	72	73	75	80	86	84	81	77	75
65°	54	54	56	62	67	67	64	62	63
67.5°	31	31	34	39	42	44	45	42	43
70°	14	15	17	20	22	23	24	22	23
72.5°	5	6	7	8	9	10	10	10	10
75°	1	1	2	2	2	2	3	3	3
77.5°	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1
82.5°	0	0	0	0	0	0	0	0	0
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)