

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: P31412

Luminaire Tested: **PD6H142E-62HC_26DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31412
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H142E-62HC_26DTT
Description: HALO 6-INCH APERTURE OPEN DOWNLIGHT, HORIZONTAL LAMP,
SPECULAR CLEAR TRIM.
Light Source: (1) 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

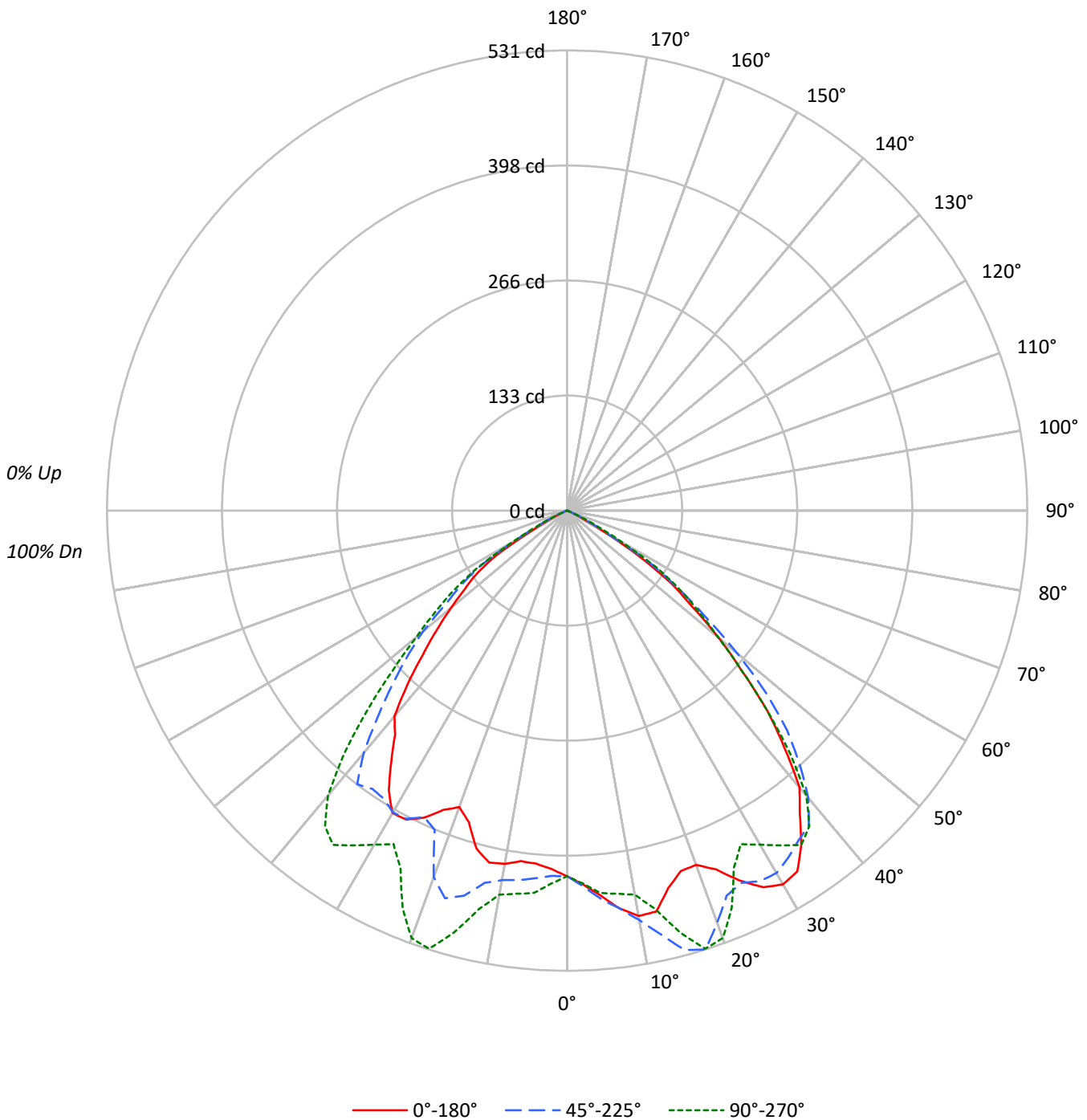
Lumens per Lamp: 1710 (1 lamp)
Luminaire Lumens: 1047.3 lumens
Efficiency: 61.2%
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 1.46 / 1.6 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 26.7
Input Voltage (V): 120.05
Input Current (A_{in}): 0.22308
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	73	73	73	73	71	71	71	71	68	68	68		65	65	65		62	62	62	61
1	68	66	64	63	67	65	63	62	62	61	60		60	59	58		58	57	56	55
2	64	60	57	54	62	59	56	53	57	54	52		55	53	51		53	51	50	49
3	59	54	50	47	58	53	49	46	51	48	46		50	47	45		48	46	44	43
4	55	49	44	41	54	48	44	41	47	43	40		45	42	40		44	41	39	38
5	51	44	39	36	50	43	39	36	42	38	35		41	38	35		40	37	35	34
6	47	40	35	32	46	40	35	32	39	35	32		38	34	31		37	34	31	30
7	44	37	32	29	43	36	32	28	35	31	28		34	31	28		34	30	28	27
8	41	34	29	26	40	33	29	26	32	28	25		32	28	25		31	28	25	24
9	38	31	26	23	38	30	26	23	30	26	23		29	26	23		29	25	23	22
10	36	28	24	21	35	28	24	21	28	24	21		27	23	21		27	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20493	20493	20493
5°	21294	21151	19528
10°	22472	21290	19586
15°	21305	23809	19085
20°	20676	24954	17301
25°	22700	21928	18844
30°	24530	21919	19851
35°	23909	23909	17970
40°	22008	22641	16361
45°	18115	18115	13074
50°	13398	13339	10283
55°	9272	9966	8073
60°	3432	5010	3432
65°	683	1366	835
70°	171	171	171
75°	99	99	99
80°	0	0	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°	42.2	4.0	2.5	0°	422	422	422	422	422	
10°-20°	135.1	12.9	7.9	5°	446	450	443	426	409	44
20°-30°	206.4	19.7	12.1	15°	451	525	504	460	404	128
30°-40°	270.4	25.8	15.8	25°	471	474	455	390	391	218
40°-50°	240.6	23.0	14.1	35°	471	465	471	392	354	292
50°-60°	131.4	12.5	7.7	45°	327	359	327	286	236	248
60°-70°	20.2	1.9	1.2	55°	147	156	158	148	128	125
70°-80°	1.2	0.1	0.1	65°	9	11	18	17	11	15
80°-90°	0.0	0.0	0.0	75°	1	1	1	1	1	1
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°	383.6	36.6	22.4							
0°-40°	654.0	62.4	38.2							
0°-60°	1026.0	98.0	60.0							
0°-90°	1047.3	100.0	61.2							
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°	1047.3	100.0	61.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	422	422	422	422	422	422	422	422	422
2.5°	432	432	434	433	431	427	422	417	414
5°	446	450	450	450	443	436	426	417	409
7.5°	463	466	463	458	446	439	430	418	408
10°	475	485	480	467	450	440	433	419	414
12.5°	474	503	501	491	471	457	440	434	416
15°	451	505	525	525	504	483	460	443	404
17.5°	436	482	531	544	530	506	469	427	377
20°	435	466	506	531	525	502	450	389	364
22.5°	448	474	481	504	496	466	399	385	374
25°	471	483	474	474	455	426	390	385	391
27.5°	490	491	482	460	434	413	401	383	402
30°	498	493	483	465	445	421	402	377	403
32.5°	494	494	475	463	458	432	394	373	383
35°	471	484	465	465	471	434	392	361	354
37.5°	441	463	458	467	459	436	398	346	326
40°	417	433	433	451	429	409	365	326	310
42.5°	371	385	397	406	381	359	324	286	273
45°	327	336	359	352	327	313	286	251	236
47.5°	273	291	311	294	273	266	251	223	204
50°	228	244	256	240	227	220	217	195	175
52.5°	181	198	201	187	191	185	175	165	149
55°	147	157	156	149	158	158	148	137	128
57.5°	99	112	115	115	122	124	118	106	99
60°	50	58	58	67	73	76	69	59	50
62.5°	22	24	30	36	39	41	37	29	26
65°	9	9	11	14	18	19	17	14	11
67.5°	3	3	3	3	3	4	4	4	4
70°	2	2	2	2	2	2	2	2	2
72.5°	1	1	1	1	1	1	2	2	2
75°	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1
80°	0	0	0	0	0	0	0	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)