

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: P31237

Luminaire Tested: **PD6H142E-62HWWC_26DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31237
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H142E-62HWWC_26DTT
Description: HALO 6-INCH APERTURE WALL WASH DOWNLIGHT, HORIZONTAL LAMP,
SPECULAR CLEAR TRIM WITH SPECULAR KICKER.
Light Source: (1) SYLVANIA FOUR PIN BASE HEX TTT CFL LAMP
CF26DD/E/841 26 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
QTP2x26CF/UNV DM

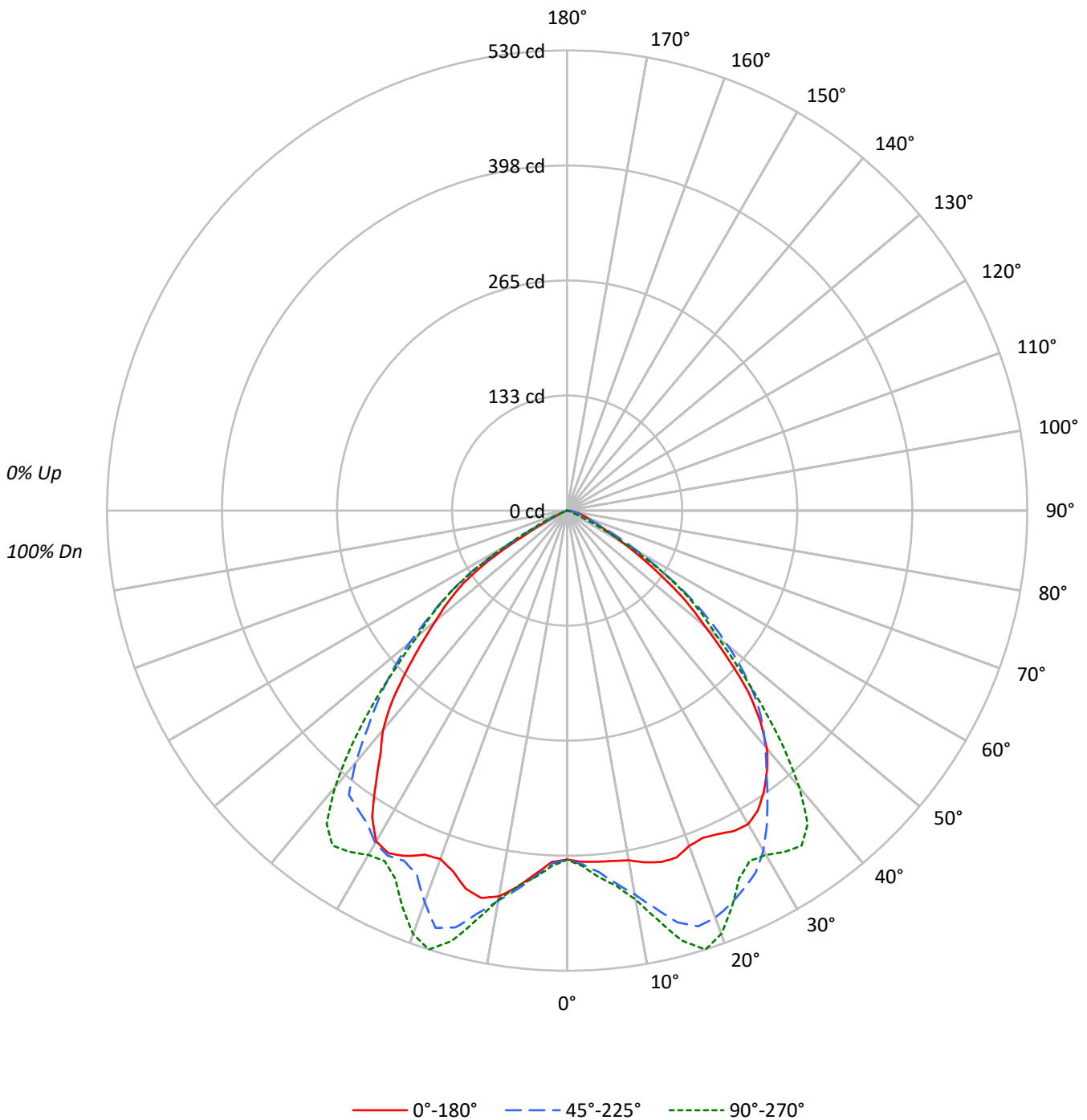
Summary

Lumens per Lamp: 1710 (1 lamp)
Luminaire Lumens: 1064.0 lumens
Efficiency: 62.2%
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.63 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 0.52' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): 120.03
Input Current (A_{in}): 0.2419
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	74	74	74	74	72	72	72	72	69	69	69		66	66	66		63	63	63	62
1	69	67	65	63	68	66	64	62	63	62	60		61	60	59		59	58	57	56
2	64	60	57	54	63	59	56	54	57	55	52		55	53	51		53	52	50	49
3	60	54	50	47	58	53	50	46	52	48	46		50	47	45		49	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	44	39	36	42	38	35		41	38	35		40	37	35	34
6	48	40	35	32	46	40	35	32	39	35	31		38	34	31		37	33	31	30
7	44	37	32	28	43	36	32	28	35	31	28		34	31	28		34	30	28	27
8	41	34	29	26	40	33	29	25	32	28	25		32	28	25		31	28	25	24
9	39	31	26	23	38	31	26	23	30	26	23		29	26	23		29	25	23	22
10	36	29	24	21	35	28	24	21	28	24	21		27	23	21		27	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20310	20310	20310
5°	20159	21053	20854
10°	20115	22378	22181
15°	20568	25183	22139
20°	20292	25624	21082
25°	20567	23419	21968
30°	21318	23414	22494
35°	20801	24804	20222
40°	19592	22766	18060
45°	16937	18200	15042
50°	12599	13695	12051
55°	8879	10707	9532
60°	5182	5679	3975
65°	3137	1647	941
70°	2209	442	265
75°	1633	306	204
80°	1097	122	244
85°	306	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	40.9	3.8	2.4	0°	402	402	402	402	402	
10°-20°	136.0	12.8	8.0	5°	406	418	424	423	420	39
20°-30°	212.0	19.9	12.4	15°	419	491	513	497	451	118
30°-40°	260.8	24.5	15.3	25°	411	481	468	445	439	191
40°-50°	231.5	21.8	13.5	35°	395	402	471	420	384	246
50°-60°	140.8	13.2	8.2	45°	295	308	317	307	262	222
60°-70°	33.2	3.1	1.9	55°	136	169	164	166	146	123
70°-80°	7.4	0.7	0.4	65°	40	43	21	20	12	43
80°-90°	1.5	0.1	0.1	75°	16	13	3	2	2	17
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°	388.8	36.5	22.7							
0°-40°	649.6	61.1	38.0							
0°-60°	1021.9	96.0	59.8							
0°-90°	1064.0	100.0	62.2							
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°	1064.0	100.0	62.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	402	402	402	402	402	402	402	402	402
2.5°	405	406	408	409	410	409	407	407	405
5°	406	411	418	423	424	423	423	423	420
7.5°	407	418	433	438	436	436	440	441	437
10°	409	426	449	458	455	451	456	457	451
12.5°	415	439	469	484	483	474	475	473	457
15°	419	455	491	511	513	504	497	481	451
17.5°	419	463	502	523	530	522	504	471	436
20°	411	461	499	515	519	510	480	450	427
22.5°	408	456	491	499	495	484	453	443	429
25°	411	450	481	483	468	455	445	440	439
27.5°	416	444	470	475	455	443	448	434	445
30°	417	434	452	467	458	444	442	425	440
32.5°	409	420	428	449	466	446	428	417	418
35°	395	398	402	435	471	447	420	399	384
37.5°	378	370	377	426	455	441	413	376	353
40°	358	340	355	403	416	410	379	348	330
42.5°	329	309	333	360	368	363	340	314	299
45°	295	280	308	317	317	320	307	281	262
47.5°	249	253	276	277	267	274	273	254	228
50°	207	225	241	233	225	232	237	222	198
52.5°	174	196	205	192	196	200	198	190	173
55°	136	163	169	159	164	171	166	157	146
57.5°	103	130	128	124	126	135	129	118	108
60°	73	94	94	86	80	84	78	64	56
62.5°	53	62	66	54	46	47	41	31	27
65°	40	42	43	29	21	20	20	15	12
67.5°	31	30	28	16	7	5	5	5	4
70°	25	25	23	13	5	3	3	3	3
72.5°	20	21	18	9	4	2	2	2	2
75°	16	16	13	6	3	2	2	2	2
77.5°	13	13	10	4	2	2	2	2	2
80°	9	9	8	3	1	1	1	2	2
82.5°	6	6	6	2	1	1	1	1	1
85°	2	3	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)