

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: P31429

Luminaire Tested: **PD6H113E-62HWWC_13DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31429
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H113E-62HWWC_13DTT
Description: HALO 6-INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL LAMP, SPECULAR CLEAR TRIM WITH SPECULAR KICKER, SLOTS COVERED.
Light Source: (1) GE G24Q-1 SINGLE END FOUR PIN BASE DTT CFL LAMP 2700K F13DBX/SPX27/4P 13 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST Sylvania QTP 1/2x13CF/UNV/DM

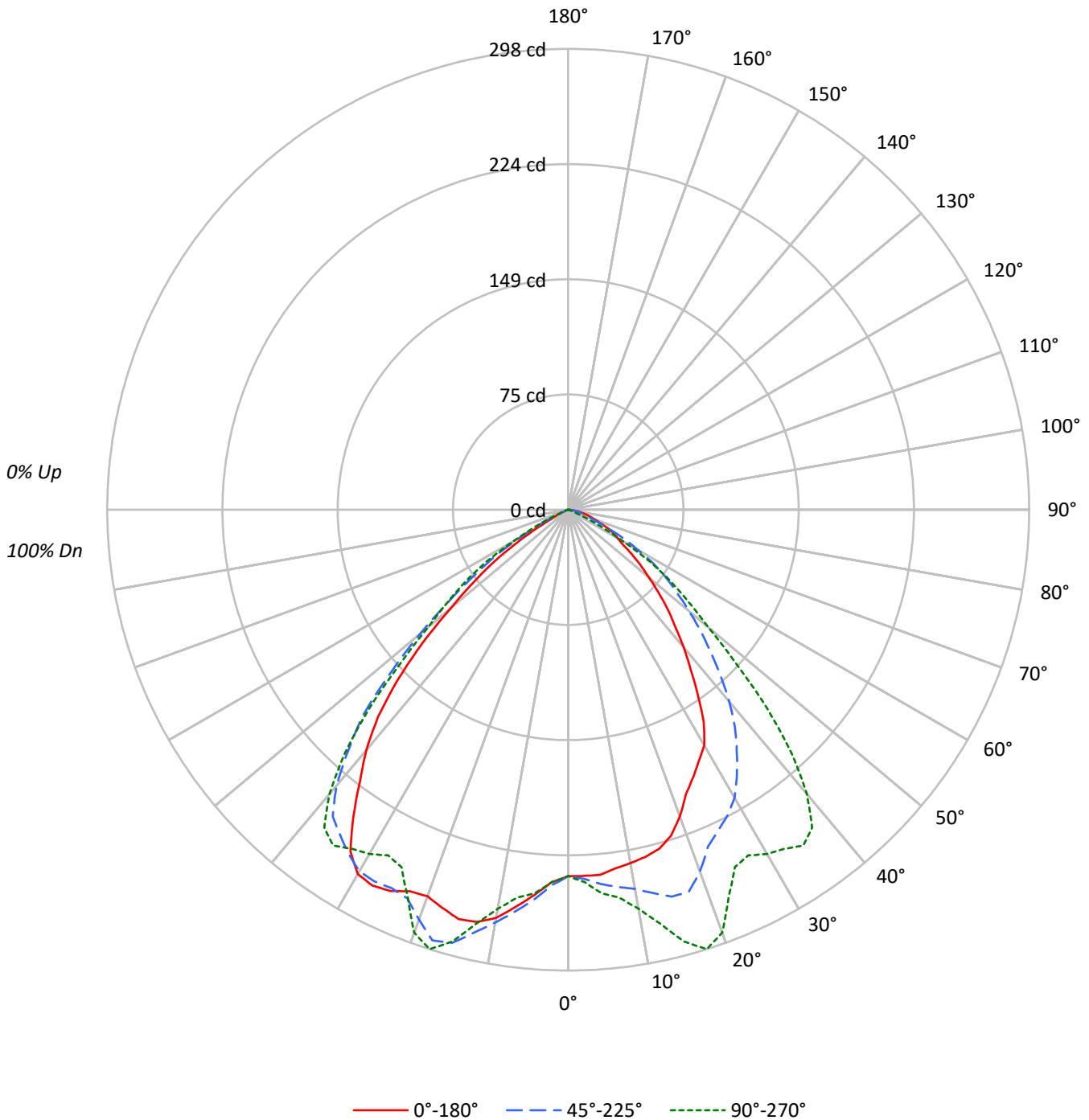
Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 561.5 lumens
Efficiency: 62.4%
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.6 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): 120.09
Input Current (A_{in}): 0.1332
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	50	30	10	0	
RCR																						
0	74	74	74	74	73	73	73	73	69	69	69	66	66	66	64	64	64	64	64	64	62	
1	70	67	65	64	68	66	64	63	63	62	61	61	60	59	59	58	57	59	58	57	56	
2	65	61	57	55	63	60	57	54	58	55	53	56	53	52	54	52	51	54	52	51	49	
3	60	55	51	47	59	54	50	47	52	49	46	50	48	45	49	47	45	49	47	45	43	
4	56	49	45	41	54	49	44	41	47	44	41	46	43	40	45	42	40	45	42	40	38	
5	52	45	40	37	51	44	40	36	43	39	36	42	38	36	41	38	35	41	38	35	34	
6	48	41	36	33	47	40	36	32	39	35	32	38	35	32	37	34	32	37	34	32	31	
7	45	37	33	29	44	37	32	29	36	32	29	35	31	29	34	31	28	34	31	28	27	
8	42	34	30	26	41	34	29	26	33	29	26	32	29	26	32	28	26	32	28	26	25	
9	39	32	27	24	38	31	27	24	31	27	24	30	26	24	29	26	23	29	26	23	22	
10	37	29	25	22	36	29	25	22	28	24	22	28	24	22	27	24	21	27	24	21	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11509	11509	11509
5°	11316	11888	11936
10°	10976	12395	12679
15°	10723	13652	12944
20°	10029	13831	12643
25°	9205	12290	13109
30°	8669	12659	13398
35°	7411	13452	12285
40°	6122	12667	10714
45°	5041	10082	8642
50°	3996	6934	5817
55°	3154	5109	3658
60°	2539	2814	1304
65°	2125	911	379
70°	1541	171	86
75°	1188	99	99
80°	830	119	119
85°	298	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	23.9	4.2	2.7	0°	237	237	237	237	237	
10°-20°	76.2	13.6	8.5	5°	237	243	249	253	250	22
20°-30°	114.9	20.5	12.8	15°	227	259	289	290	274	63
30°-40°	139.8	24.9	15.5	25°	191	229	255	270	272	88
40°-50°	118.0	21.0	13.1	35°	146	190	265	257	242	91
50°-60°	64.3	11.4	7.1	45°	91	130	182	187	156	70
60°-70°	18.6	3.3	2.1	55°	50	78	81	74	58	45
70°-80°	4.9	0.9	0.5	65°	28	29	12	10	5	27
80°-90°	1.0	0.2	0.1	75°	12	9	1	1	1	13
90°-100°	0.0	0.0	0.0	85°	2	2	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°	215.0	38.3	23.9							
0°-40°	354.8	63.2	39.4							
0°-60°	537.1	95.7	59.7							
0°-90°	561.5	100.0	62.4							
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°	561.5	100.0	62.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	237	237	237	237	237	237	237	237	237
2.5°	237	238	239	241	241	241	243	242	241
5°	237	238	243	246	249	250	253	251	250
7.5°	234	238	246	250	253	257	262	261	259
10°	232	239	249	256	262	265	271	270	268
12.5°	230	239	254	266	274	276	280	280	273
15°	227	239	259	277	289	290	290	282	274
17.5°	221	236	259	283	298	301	292	279	270
20°	211	226	249	273	291	293	282	274	266
22.5°	199	214	236	256	271	277	272	272	267
25°	191	203	229	244	255	265	270	273	272
27.5°	183	192	223	244	252	262	271	270	274
30°	176	178	215	246	257	266	270	266	272
32.5°	163	165	203	242	260	266	264	260	262
35°	146	150	190	233	265	265	257	249	242
37.5°	130	137	177	224	259	265	250	230	221
40°	116	124	162	206	240	250	233	212	203
42.5°	102	112	146	180	214	224	210	190	182
45°	91	101	130	155	182	193	187	166	156
47.5°	79	89	116	132	147	158	155	141	128
50°	68	78	102	112	118	124	125	113	99
52.5°	59	68	89	96	98	100	97	87	77
55°	50	58	78	83	81	81	74	65	58
57.5°	42	50	66	68	63	63	56	46	37
60°	37	43	52	48	41	41	35	25	19
62.5°	33	36	40	32	25	26	21	14	11
65°	28	29	29	19	12	12	10	7	5
67.5°	22	21	19	10	3	2	2	2	2
70°	18	18	15	8	2	2	1	1	1
72.5°	15	15	12	6	2	1	1	1	1
75°	12	12	9	4	1	1	1	1	1
77.5°	9	9	7	2	1	1	1	1	1
80°	7	7	5	2	1	1	1	1	1
82.5°	4	4	4	1	0	0	0	0	0
85°	2	2	2	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)