

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: P238039

Luminaire Tested: **PRS615D010-S6M12-64SNDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SNDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1444.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

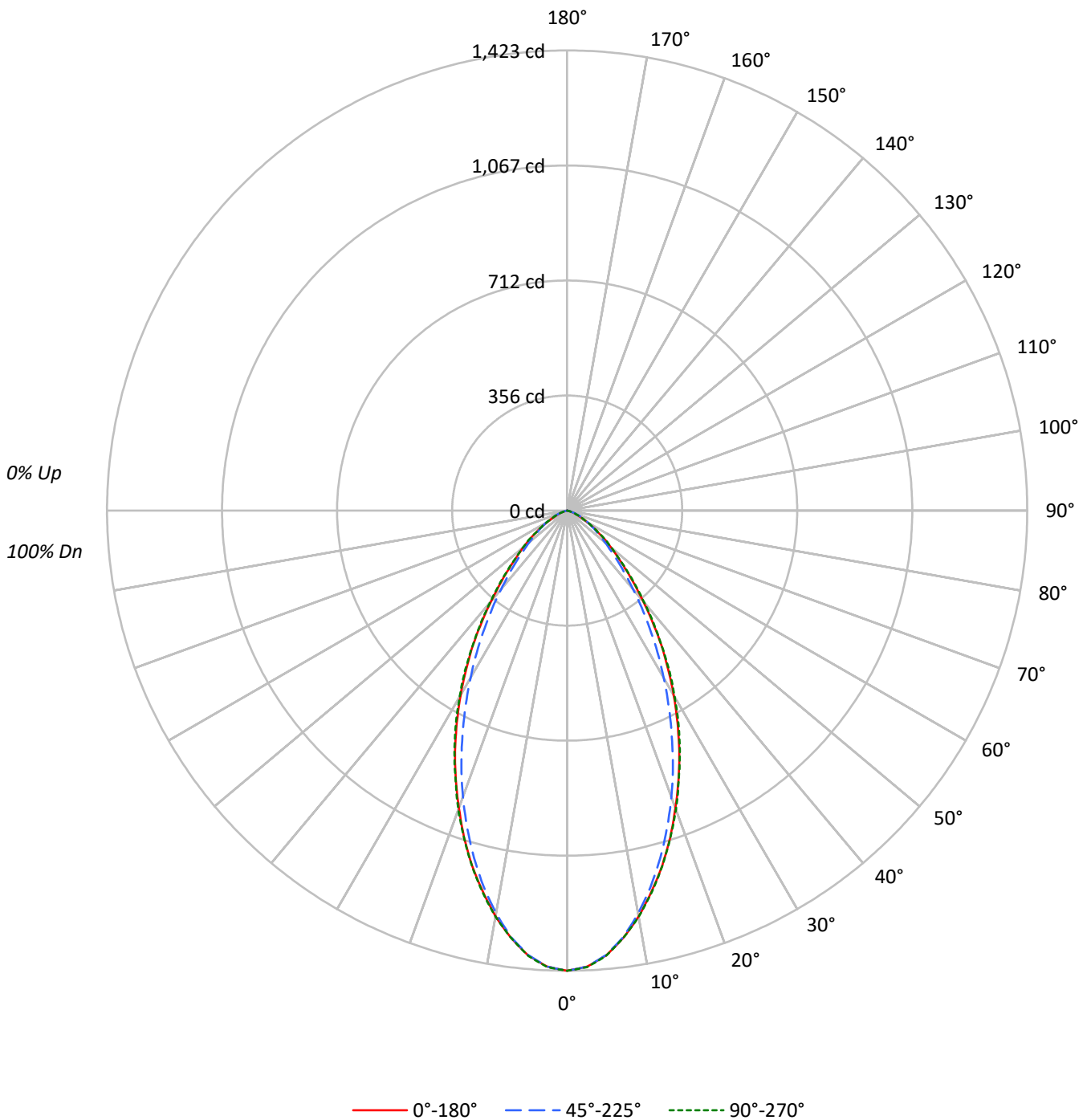
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	61273	61273	61273
5°	59687	59631	59743
10°	55695	55306	55752
15°	50646	49562	50703
20°	44815	43180	45104
25°	38951	36347	39193
30°	32778	29671	33032
35°	26675	23390	26743
40°	20498	17845	20785
45°	15454	13432	15764
50°	11789	10248	12043
55°	8805	8039	8805
60°	6148	6476	6260
65°	4157	4941	4289
70°	2895	3210	2732
75°	1281	1481	1281
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	8.9
10°-20°	313.3	21.7
20°-30°	362.4	25.1
30°-40°	296.7	20.5
40°-50°	185.5	12.8
50°-60°	102.1	7.1
60°-70°	45.5	3.2
70°-80°	10.4	0.7
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	803.9	55.7
0°-40°	1100.6	76.2
0°-60°	1388.2	96.1
0°-90°	1444.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1444.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1381	1380	1380	1382	1382	128
15°	1136	1123	1112	1126	1138	317
25°	820	788	765	792	825	375
35°	508	469	445	473	509	316
45°	254	232	221	236	259	199
55°	117	112	107	115	117	106
65°	41	45	48	45	42	43
75°	8	9	9	9	8	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.1	1423.1	1423.1	1423.1	1423.1
2.5°	1411.6	1412.9	1411.6	1412.9	1412.9
5°	1381.0	1379.7	1379.7	1382.3	1382.3
7.5°	1332.6	1331.3	1330.0	1332.6	1332.6
10°	1273.9	1271.3	1265.0	1272.6	1275.2
12.5°	1206.3	1201.2	1192.3	1201.2	1208.9
15°	1136.2	1123.4	1111.9	1126.0	1137.5
17.5°	1059.7	1043.1	1027.8	1041.8	1060.9
20°	978.1	958.9	942.4	960.2	984.4
22.5°	900.3	873.5	854.4	876.0	901.5
25°	819.9	788.1	765.1	791.9	825.0
27.5°	738.3	703.9	679.7	709.0	746.0
30°	659.3	622.3	596.8	628.7	664.4
32.5°	580.2	545.8	520.3	550.9	589.1
35°	507.5	469.3	445.0	473.1	508.8
37.5°	432.3	397.9	378.7	403.0	438.7
40°	364.7	334.1	317.5	339.2	369.8
42.5°	306.0	279.3	265.2	281.8	312.4
45°	253.8	232.1	220.6	235.9	258.9
47.5°	210.4	193.8	182.3	196.4	214.2
50°	176.0	160.7	153.0	163.2	179.8
52.5°	145.4	135.2	126.2	136.4	149.2
55°	117.3	112.2	107.1	114.8	117.3
57.5°	91.8	90.5	89.3	91.8	93.1
60°	71.4	72.7	75.2	72.7	72.7
62.5°	54.8	57.4	62.5	57.4	56.1
65°	40.8	44.6	48.5	44.6	42.1
67.5°	30.6	33.2	35.7	33.2	30.6
70°	23.0	24.2	25.5	24.2	21.7
72.5°	14.0	16.6	16.6	16.6	14.0
75°	7.7	8.9	8.9	8.9	7.7
77.5°	1.3	3.8	3.8	3.8	1.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)