

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: P238139

Luminaire Tested: **PRS615D010-S6M12-61SNDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SNDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1276.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

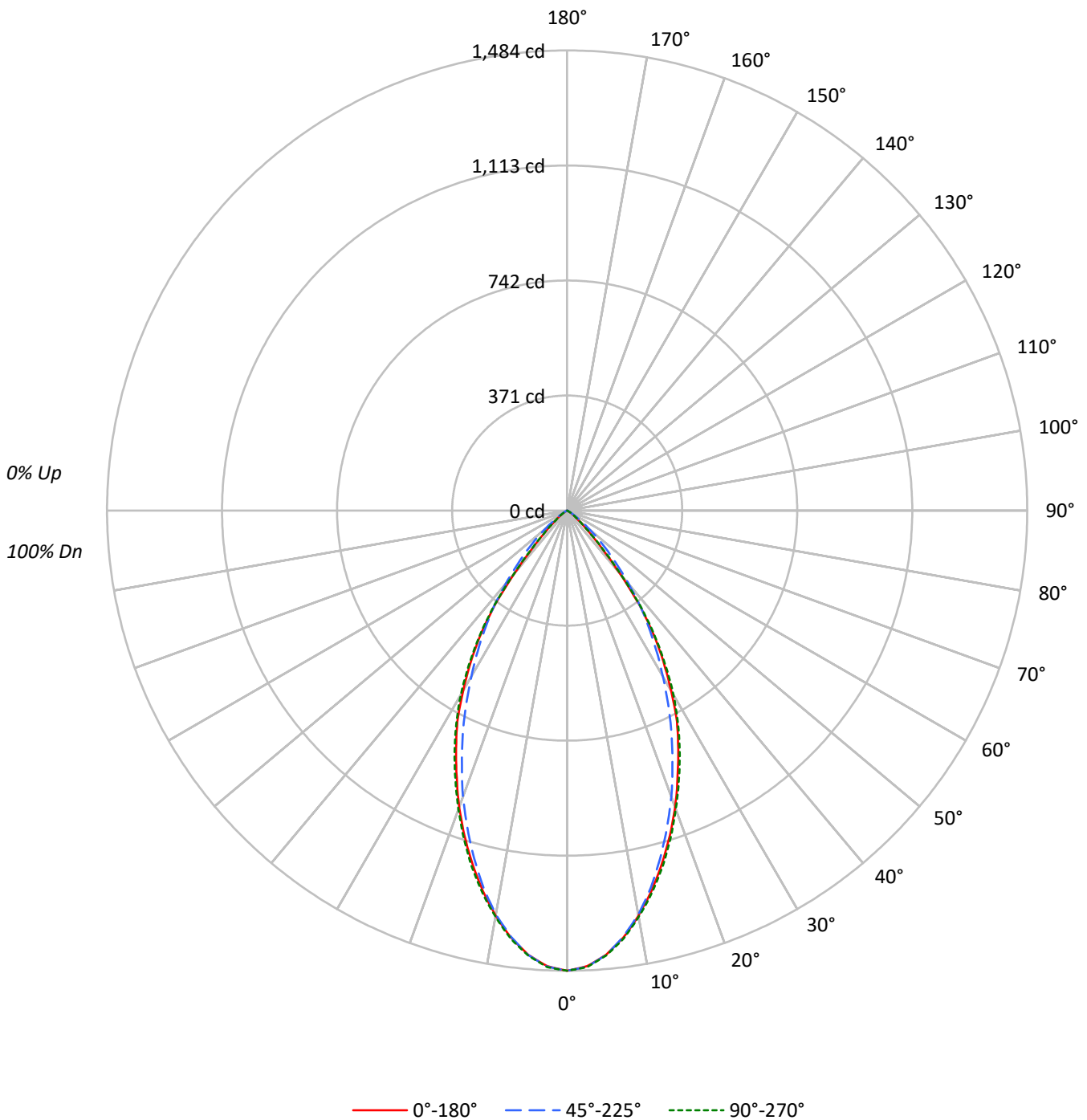
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52					52			
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63895	63895	63895
5°	62138	62194	62250
10°	57994	57820	58169
15°	52576	51693	52990
20°	46644	45008	46951
25°	40252	37863	40818
30°	33305	30670	34091
35°	25398	24005	25886
40°	14731	17261	15181
45°	6527	11283	6692
50°	3101	6296	3101
55°	1689	2582	1689
60°	568	1025	568
65°	0	265	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	10.5
10°-20°	326.5	25.6
20°-30°	376.4	29.5
30°-40°	290.2	22.7
40°-50°	119.1	9.3
50°-60°	28.0	2.2
60°-70°	2.3	0.2
70°-80°	0.0	0.0
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°	836.5	65.5
0°-40°	1126.8	88.3
0°-60°	1273.9	99.8
0°-90°	1276.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1438	1438	1439	1440	1440	134
15°	1180	1170	1160	1172	1189	329
25°	847	818	797	826	859	387
35°	483	459	457	470	492	294
45°	107	139	185	143	110	94
55°	22	29	34	29	22	21
65°	0	0	3	0	0	1
75°	0	0	0	0	0	0
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°	1484.0	1484.0	1484.0	1484.0	1484.0
2.5°	1470.8	1472.1	1472.1	1473.4	1473.4
5°	1437.7	1437.7	1439.0	1440.3	1440.3
7.5°	1388.7	1387.4	1386.1	1388.7	1392.7
10°	1326.5	1322.5	1322.5	1325.2	1330.5
12.5°	1256.3	1249.7	1245.7	1251.0	1262.9
15°	1179.5	1170.3	1159.7	1171.6	1188.8
17.5°	1100.1	1086.9	1071.0	1088.2	1108.1
20°	1018.0	996.9	982.3	1000.8	1024.7
22.5°	930.7	908.2	887.0	914.8	941.2
25°	847.3	818.1	797.0	826.1	859.2
27.5°	766.5	728.1	705.6	737.4	774.4
30°	669.9	642.1	616.9	650.0	685.7
32.5°	577.2	548.1	536.2	557.3	589.1
35°	483.2	459.4	456.7	470.0	492.5
37.5°	378.6	377.3	385.2	382.6	386.6
40°	262.1	293.9	307.1	296.5	270.1
42.5°	169.5	206.5	239.6	211.8	178.7
45°	107.2	139.0	185.3	143.0	109.9
47.5°	67.5	90.0	139.0	92.7	68.8
50°	46.3	59.6	94.0	59.6	46.3
52.5°	31.8	41.0	58.2	41.0	33.1
55°	22.5	29.1	34.4	29.1	22.5
57.5°	13.2	18.5	19.9	18.5	14.6
60°	6.6	10.6	11.9	10.6	6.6
62.5°	0.0	4.0	6.6	4.0	0.0
65°	0.0	0.0	2.6	0.0	0.0
67.5°	0.0	0.0	1.3	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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)