

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: P253039

Luminaire Tested: **PRS615D010-S6M12-64SWDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SWDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1283.2 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

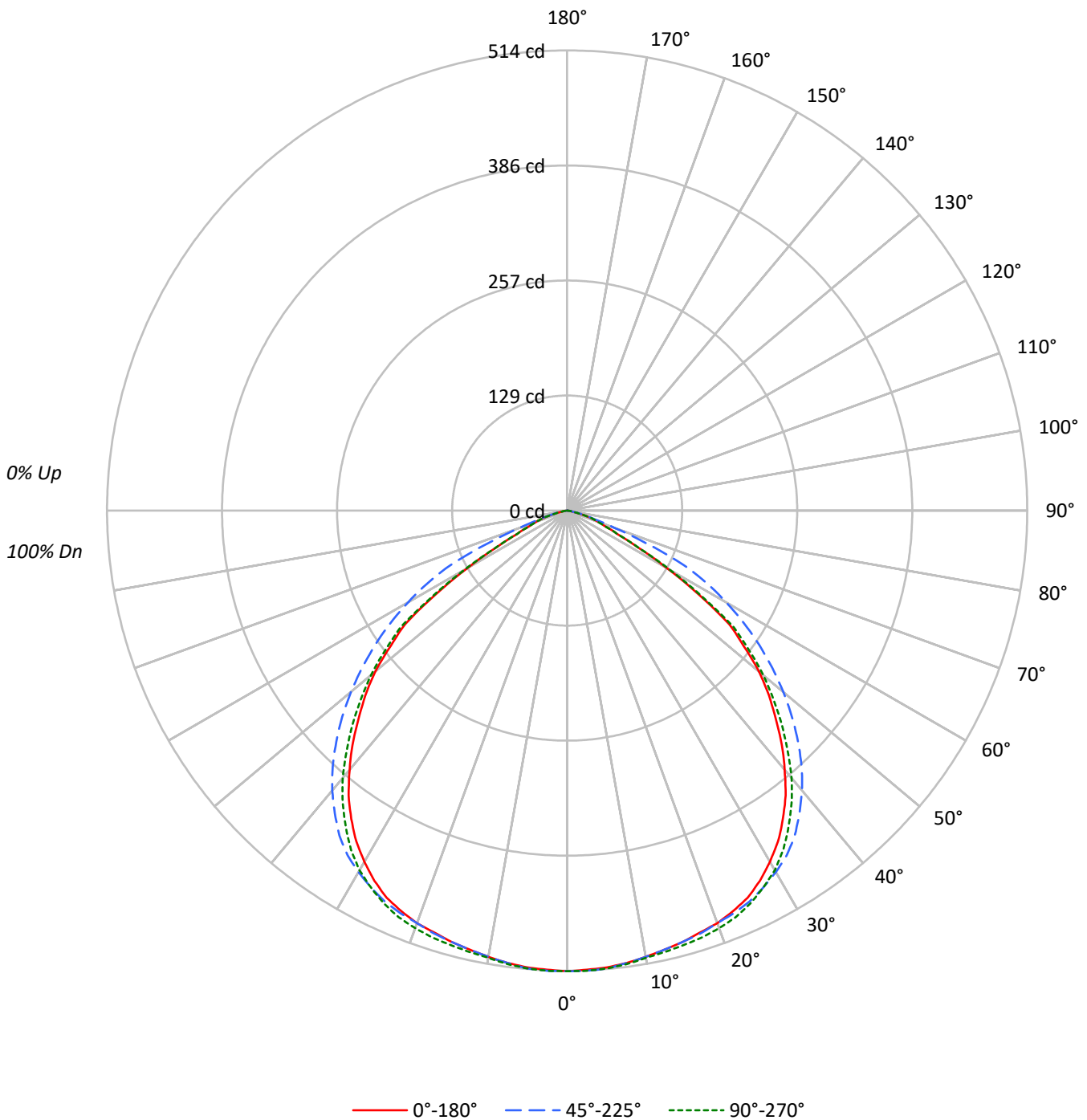
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22152	22152	22152
5°	22133	22185	22185
10°	22127	22127	22179
15°	22234	22234	22394
20°	22470	22470	22744
25°	22665	22893	23007
30°	22517	23178	23058
35°	22091	23300	22664
40°	21246	22943	21926
45°	20075	22207	20666
50°	18769	21113	19170
55°	16589	19675	17047
60°	11126	17679	11444
65°	6276	14640	6276
70°	4708	7150	4557
75°	2811	3211	3011
80°	1190	1488	1190
85°	593	593	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.8
10°-20°	141.4	11.0
20°-30°	221.5	17.3
30°-40°	270.6	21.1
40°-50°	269.0	21.0
50°-60°	212.4	16.6
60°-70°	95.1	7.4
70°-80°	22.1	1.7
80°-90°	2.3	0.2
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°	411.6	32.1
0°-40°	682.2	53.2
0°-60°	1163.7	90.7
0°-90°	1283.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	512	512	513	513	513	49
15°	499	498	499	500	502	141
25°	477	478	482	483	484	219
35°	420	429	443	437	431	262
45°	330	345	365	354	339	254
55°	221	238	262	243	227	189
65°	62	81	144	82	62	69
75°	17	20	19	20	18	19
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	514.5	514.5	514.5	514.5	514.5
2.5°	513.3	514.5	514.5	514.5	514.5
5°	512.1	512.1	513.3	513.3	513.3
7.5°	509.7	509.7	509.7	510.9	510.9
10°	506.1	506.1	506.1	507.3	507.3
12.5°	502.4	502.4	502.4	503.6	504.9
15°	498.8	497.6	498.8	500.0	502.4
17.5°	494.0	495.2	495.2	497.6	500.0
20°	490.4	490.4	490.4	494.0	496.4
22.5°	484.3	484.3	486.7	489.2	491.6
25°	477.1	478.3	481.9	483.1	484.3
27.5°	466.2	469.8	474.7	475.9	474.7
30°	452.9	457.7	466.2	465.0	463.8
32.5°	438.4	444.5	456.5	452.9	449.3
35°	420.3	428.8	443.3	437.2	431.2
37.5°	401.0	411.9	426.3	420.3	411.9
40°	378.0	391.3	408.2	399.8	390.1
42.5°	355.1	369.6	387.7	376.8	364.7
45°	329.7	345.4	364.7	353.9	339.4
47.5°	305.6	321.3	340.6	327.3	312.8
50°	280.2	294.7	315.2	300.7	286.2
52.5°	248.8	268.1	288.7	273.0	256.0
55°	221.0	237.9	262.1	242.8	227.1
57.5°	173.9	207.7	234.3	211.4	178.8
60°	129.2	161.8	205.3	166.7	132.9
62.5°	89.4	119.6	176.3	120.8	90.6
65°	61.6	80.9	143.7	82.1	61.6
67.5°	45.9	54.4	96.6	54.4	45.9
70°	37.4	39.9	56.8	39.9	36.2
72.5°	27.8	31.4	31.4	31.4	29.0
75°	16.9	20.5	19.3	20.5	18.1
77.5°	7.2	9.7	12.1	10.9	7.2
80°	4.8	4.8	6.0	4.8	4.8
82.5°	3.6	3.6	3.6	3.6	3.6
85°	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)