

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: P237969

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SMDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 1418.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

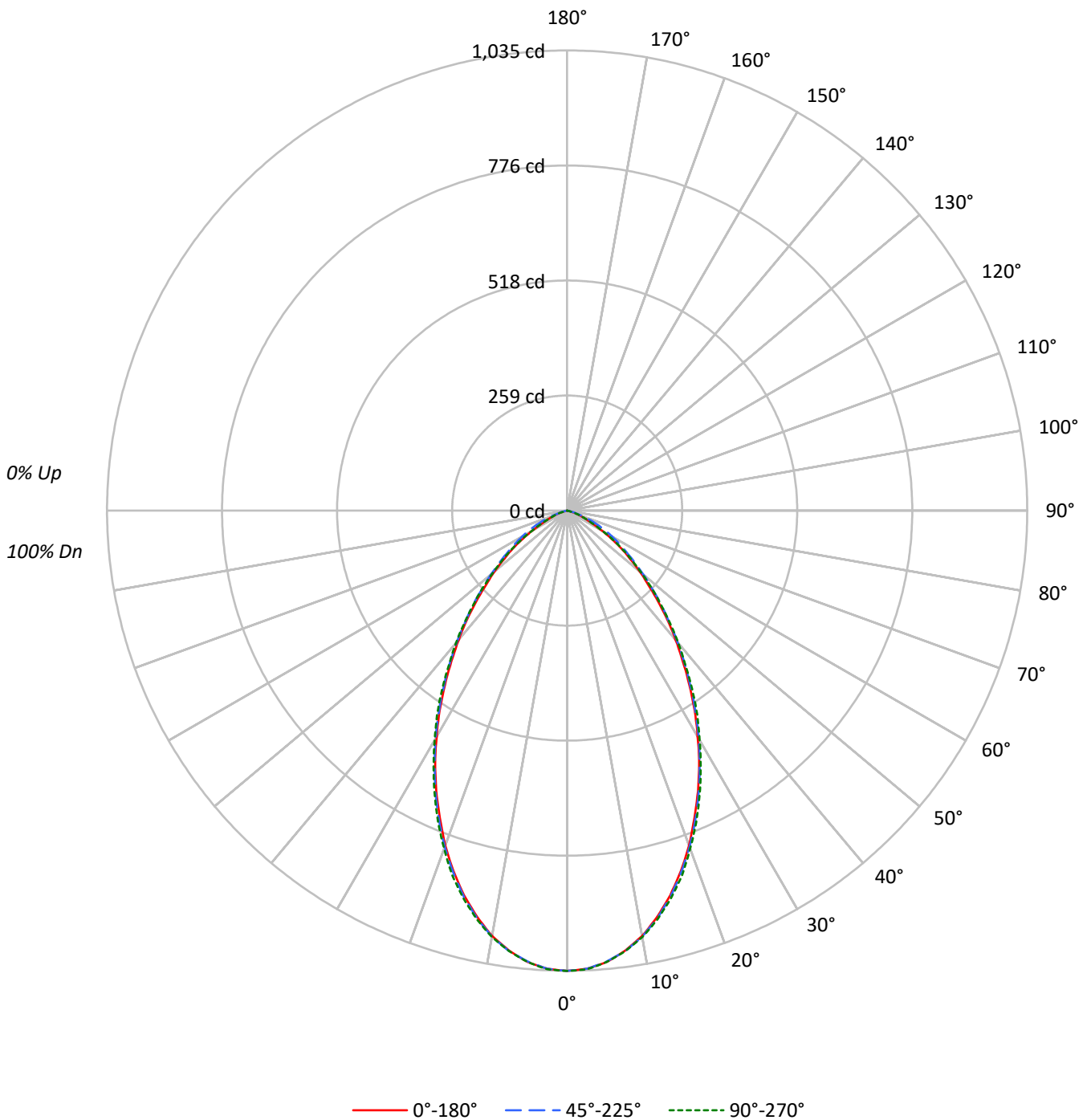
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	51	73	62	55	51	61	55	50	60	54	50	58	53	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44580	44580	44580
5°	44063	44002	44063
10°	42478	42535	42592
15°	39925	40046	40220
20°	36710	36893	37077
25°	33069	33259	33511
30°	29179	29442	29641
35°	25182	25461	25745
40°	21319	21695	21841
45°	17585	18151	18072
50°	14261	14977	14622
55°	11192	12191	11492
60°	7793	10084	8026
65°	5012	7733	5012
70°	3349	4519	3349
75°	1331	1996	1331
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	6.8
10°-20°	251.3	17.7
20°-30°	320.6	22.6
30°-40°	303.0	21.4
40°-50°	230.2	16.2
50°-60°	142.1	10.0
60°-70°	62.0	4.4
70°-80°	12.9	0.9
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°	667.7	47.1
0°-40°	970.7	68.5
0°-60°	1343.0	94.7
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1020	1020	1018	1020	1020	96
15°	896	896	898	901	902	250
25°	696	696	700	703	705	319
35°	479	483	484	488	490	299
45°	289	297	298	302	297	224
55°	149	158	162	161	153	133
65°	49	57	76	59	49	51
75°	8	12	12	12	8	10
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°	1035.4	1035.4	1035.4	1035.4	1035.4
2.5°	1031.4	1031.4	1031.4	1031.4	1032.8
5°	1019.5	1019.5	1018.1	1019.5	1019.5
7.5°	998.2	999.5	999.5	999.5	999.5
10°	971.6	971.6	972.9	974.2	974.2
12.5°	935.6	937.0	938.3	940.9	940.9
15°	895.7	895.7	898.4	901.0	902.3
17.5°	850.4	850.4	853.1	855.8	859.8
20°	801.2	801.2	805.2	809.2	809.2
22.5°	748.0	748.0	753.3	754.6	758.6
25°	696.1	696.1	700.1	702.7	705.4
27.5°	642.8	641.5	645.5	648.1	650.8
30°	586.9	586.9	592.2	592.2	596.2
32.5°	533.7	533.7	537.7	540.3	544.3
35°	479.1	483.1	484.4	488.4	489.8
37.5°	427.2	433.9	433.9	439.2	436.5
40°	379.3	383.3	386.0	388.6	388.6
42.5°	334.1	339.4	339.4	343.4	342.0
45°	288.8	296.8	298.1	302.1	296.8
47.5°	247.5	256.9	258.2	260.9	258.2
50°	212.9	219.6	223.6	223.6	218.3
52.5°	178.3	186.3	190.3	190.3	183.7
55°	149.1	158.4	162.4	161.0	153.1
57.5°	118.4	129.1	138.4	133.1	122.4
60°	90.5	103.8	117.1	106.5	93.2
62.5°	65.2	78.5	95.8	78.5	67.9
65°	49.2	57.2	75.9	58.6	49.2
67.5°	35.9	41.3	55.9	42.6	35.9
70°	26.6	30.6	35.9	30.6	26.6
72.5°	17.3	21.3	21.3	21.3	17.3
75°	8.0	12.0	12.0	12.0	8.0
77.5°	0.0	2.7	5.3	2.7	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)