

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: P237970

Luminaire Tested: **PRS620D010-S6M12-64SMDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237970
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: PRS620D010-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

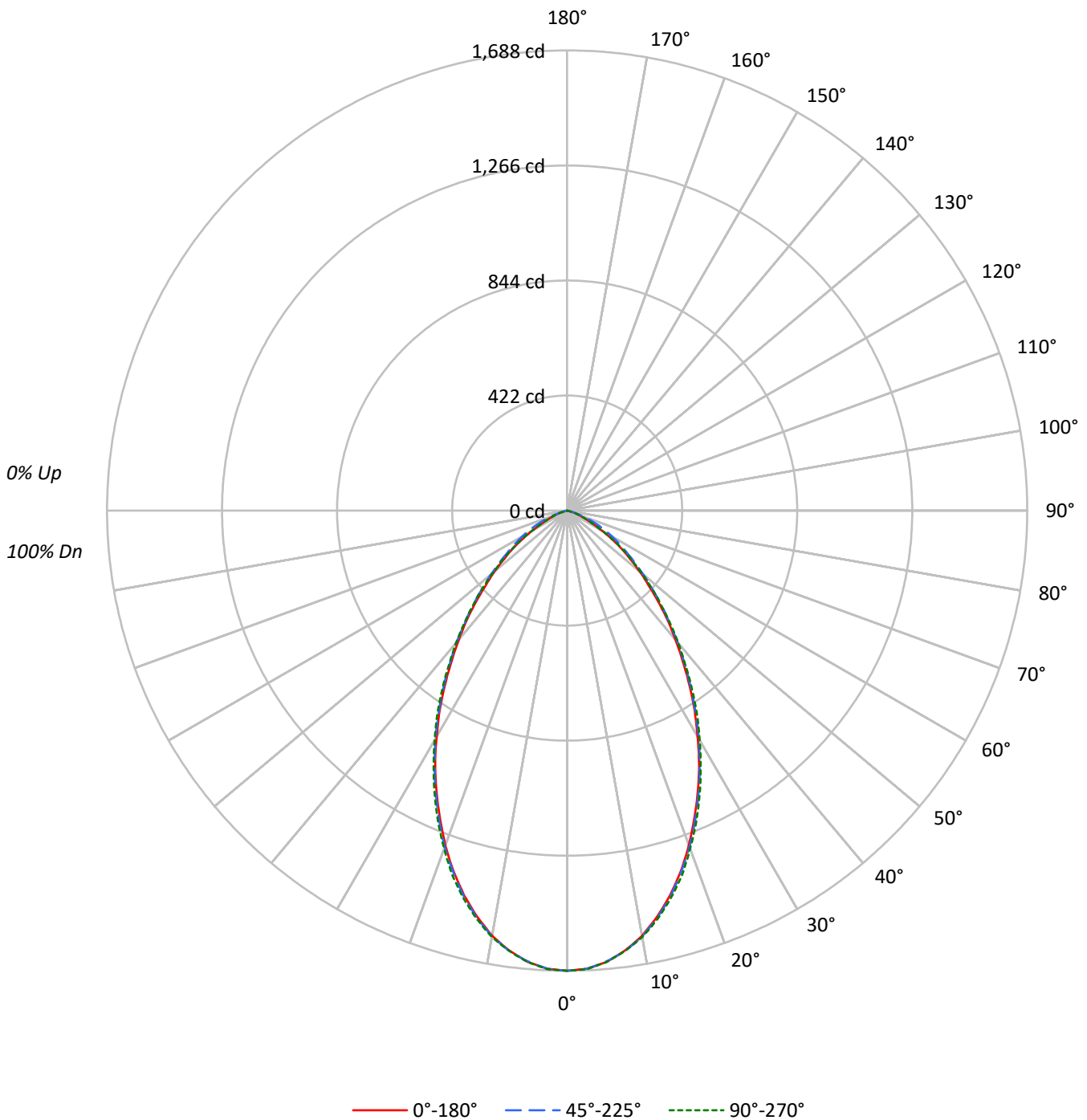
Lumens per Lamp: N/A
Luminaire Lumens: 2311.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74	70	66	64
5	85	74	67	62	83	73	67	62	71	66	61		70	64	60		68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	75	63	56	51	73	62	55	51	61	55	50		60	54	50		58	53	50	48
8	70	59	51	46	69	58	51	46	57	50	46		56	50	46		54	49	46	44
9	66	54	47	43	65	54	47	43	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	72682	72682	72682
5°	71836	71741	71836
10°	69252	69344	69440
15°	65092	65284	65574
20°	59849	60146	60449
25°	53911	54219	54633
30°	47574	48006	48329
35°	41056	41513	41970
40°	34757	35364	35612
45°	28673	29592	29465
50°	23256	24415	23839
55°	18241	19870	18729
60°	12701	16439	13080
65°	8181	12602	8181
70°	5463	7377	5463
75°	2163	3244	2163
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	6.8
10°-20°	409.6	17.7
20°-30°	522.7	22.6
30°-40°	494.1	21.4
40°-50°	375.2	16.2
50°-60°	231.7	10.0
60°-70°	101.1	4.4
70°-80°	21.1	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°	1088.5	47.1
0°-40°	1582.6	68.5
0°-60°	2189.5	94.7
0°-90°	2311.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1662	1662	1660	1662	1662	156
15°	1460	1460	1465	1469	1471	408
25°	1135	1135	1141	1146	1150	520
35°	781	788	790	796	798	488
45°	471	484	486	492	484	365
55°	243	258	265	262	250	217
65°	80	93	124	96	80	84
75°	13	20	20	20	13	16
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°	1688.1	1688.1	1688.1	1688.1	1688.1
2.5°	1681.6	1681.6	1681.6	1681.6	1683.8
5°	1662.1	1662.1	1659.9	1662.1	1662.1
7.5°	1627.4	1629.5	1629.5	1629.5	1629.5
10°	1584.0	1584.0	1586.1	1588.3	1588.3
12.5°	1525.4	1527.6	1529.7	1534.1	1534.1
15°	1460.3	1460.3	1464.6	1469.0	1471.1
17.5°	1386.5	1386.5	1390.9	1395.2	1401.7
20°	1306.2	1306.2	1312.7	1319.3	1319.3
22.5°	1219.4	1219.4	1228.1	1230.3	1236.8
25°	1134.8	1134.8	1141.3	1145.7	1150.0
27.5°	1048.0	1045.9	1052.4	1056.7	1061.0
30°	956.9	956.9	965.6	965.6	972.1
32.5°	870.1	870.1	876.6	880.9	887.5
35°	781.1	787.6	789.8	796.3	798.5
37.5°	696.5	707.4	707.4	716.0	711.7
40°	618.4	624.9	629.2	633.6	633.6
42.5°	544.6	553.3	553.3	559.8	557.6
45°	470.9	483.9	486.0	492.5	483.9
47.5°	403.6	418.8	420.9	425.3	420.9
50°	347.2	358.0	364.5	364.5	355.9
52.5°	290.8	303.8	310.3	310.3	299.4
55°	243.0	258.2	264.7	262.5	249.5
57.5°	193.1	210.5	225.7	217.0	199.6
60°	147.5	169.2	190.9	173.6	151.9
62.5°	106.3	128.0	156.2	128.0	110.7
65°	80.3	93.3	123.7	95.5	80.3
67.5°	58.6	67.3	91.1	69.4	58.6
70°	43.4	49.9	58.6	49.9	43.4
72.5°	28.2	34.7	34.7	34.7	28.2
75°	13.0	19.5	19.5	19.5	13.0
77.5°	0.0	4.3	8.7	4.3	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)