

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: P237965

Luminaire Tested: **PRS620D010-S6M12-64SMDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237965
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2213.1 lumens
Efficiency: N/A
Efficacy: 110.7 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

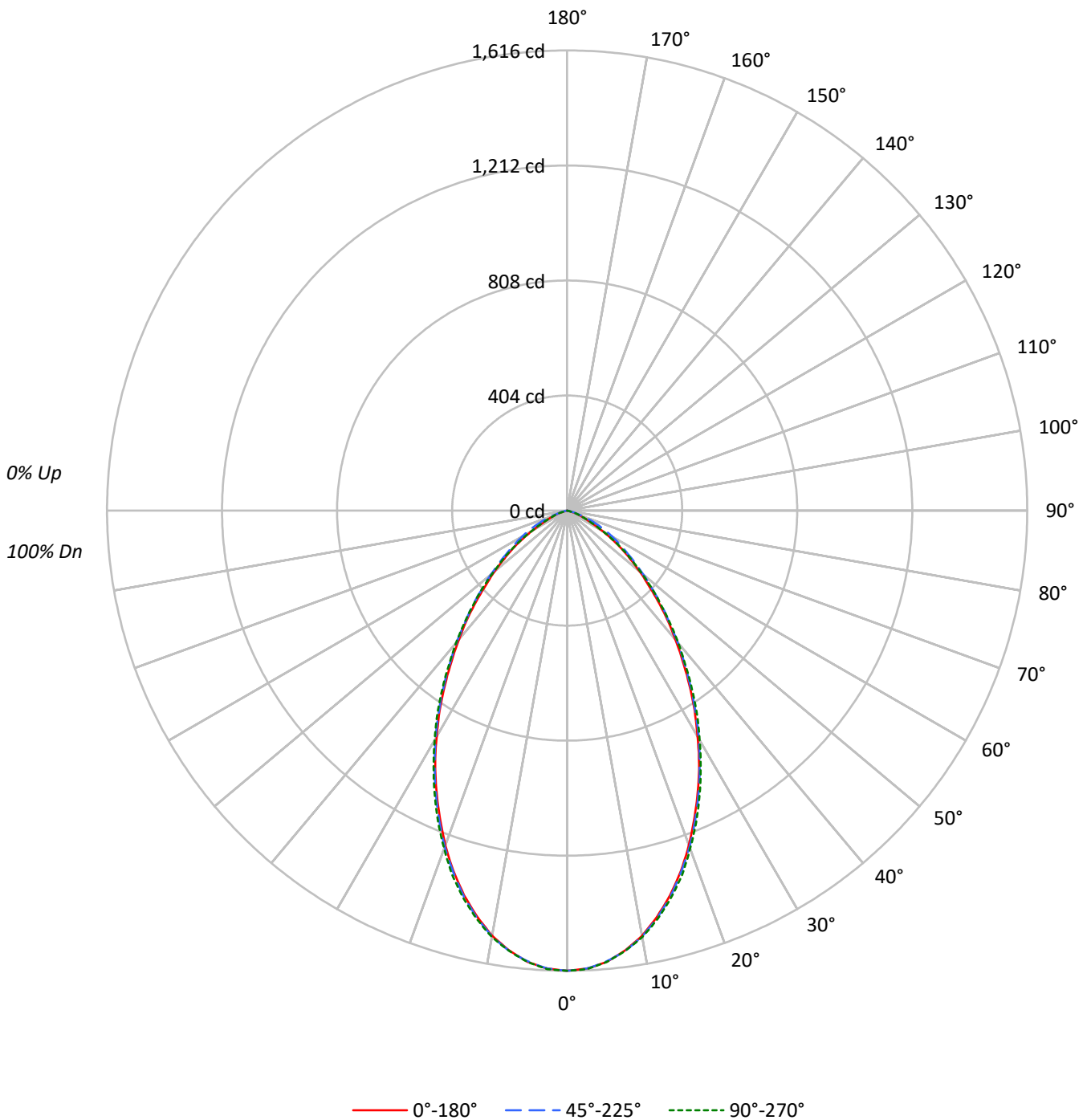
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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				
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	74	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°	69582	69582	69582
5°	68772	68681	68772
10°	66297	66389	66476
15°	62315	62498	62779
20°	57297	57581	57869
25°	51611	51906	52300
30°	45545	45958	46266
35°	39305	39742	40178
40°	33273	33858	34088
45°	27449	28332	28204
50°	22265	23377	22821
55°	17460	19022	17933
60°	12168	15741	12521
65°	7834	12062	7834
70°	5224	7062	5224
75°	2079	3111	2079
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	6.8
10°-20°	392.2	17.7
20°-30°	500.4	22.6
30°-40°	473.0	21.4
40°-50°	359.2	16.2
50°-60°	221.9	10.0
60°-70°	96.8	4.4
70°-80°	20.2	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°	1042.1	47.1
0°-40°	1515.1	68.5
0°-60°	2096.1	94.7
0°-90°	2213.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1591	1591	1589	1591	1591	149
15°	1398	1398	1402	1406	1408	391
25°	1086	1086	1093	1097	1101	498
35°	748	754	756	762	764	467
45°	451	463	465	472	463	350
55°	233	247	253	251	239	208
65°	77	89	118	91	77	80
75°	12	19	19	19	12	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°	1616.1	1616.1	1616.1	1616.1	1616.1
2.5°	1609.8	1609.8	1609.8	1609.8	1611.9
5°	1591.2	1591.2	1589.1	1591.2	1591.2
7.5°	1557.9	1560.0	1560.0	1560.0	1560.0
10°	1516.4	1516.4	1518.5	1520.5	1520.5
12.5°	1460.3	1462.4	1464.4	1468.6	1468.6
15°	1398.0	1398.0	1402.1	1406.3	1408.4
17.5°	1327.3	1327.3	1331.5	1335.7	1341.9
20°	1250.5	1250.5	1256.7	1263.0	1263.0
22.5°	1167.4	1167.4	1175.7	1177.8	1184.0
25°	1086.4	1086.4	1092.6	1096.8	1100.9
27.5°	1003.3	1001.2	1007.5	1011.6	1015.8
30°	916.1	916.1	924.4	924.4	930.6
32.5°	833.0	833.0	839.2	843.4	849.6
35°	747.8	754.0	756.1	762.3	764.4
37.5°	666.8	677.2	677.2	685.5	681.3
40°	592.0	598.2	602.4	606.5	606.5
42.5°	521.4	529.7	529.7	535.9	533.8
45°	450.8	463.2	465.3	471.5	463.2
47.5°	386.4	400.9	403.0	407.1	403.0
50°	332.4	342.7	349.0	349.0	340.7
52.5°	278.3	290.8	297.0	297.0	286.7
55°	232.6	247.2	253.4	251.3	238.9
57.5°	184.9	201.5	216.0	207.7	191.1
60°	141.3	162.0	182.8	166.2	145.4
62.5°	101.8	122.6	149.6	122.6	105.9
65°	76.9	89.3	118.4	91.4	76.9
67.5°	56.1	64.4	87.2	66.5	56.1
70°	41.5	47.8	56.1	47.8	41.5
72.5°	27.0	33.2	33.2	33.2	27.0
75°	12.5	18.7	18.7	18.7	12.5
77.5°	0.0	4.2	8.3	4.2	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)