

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: P237975

Luminaire Tested: **PRS620D010-S6M12-64SMDMB-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237975  
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-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW 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: 2298.6 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

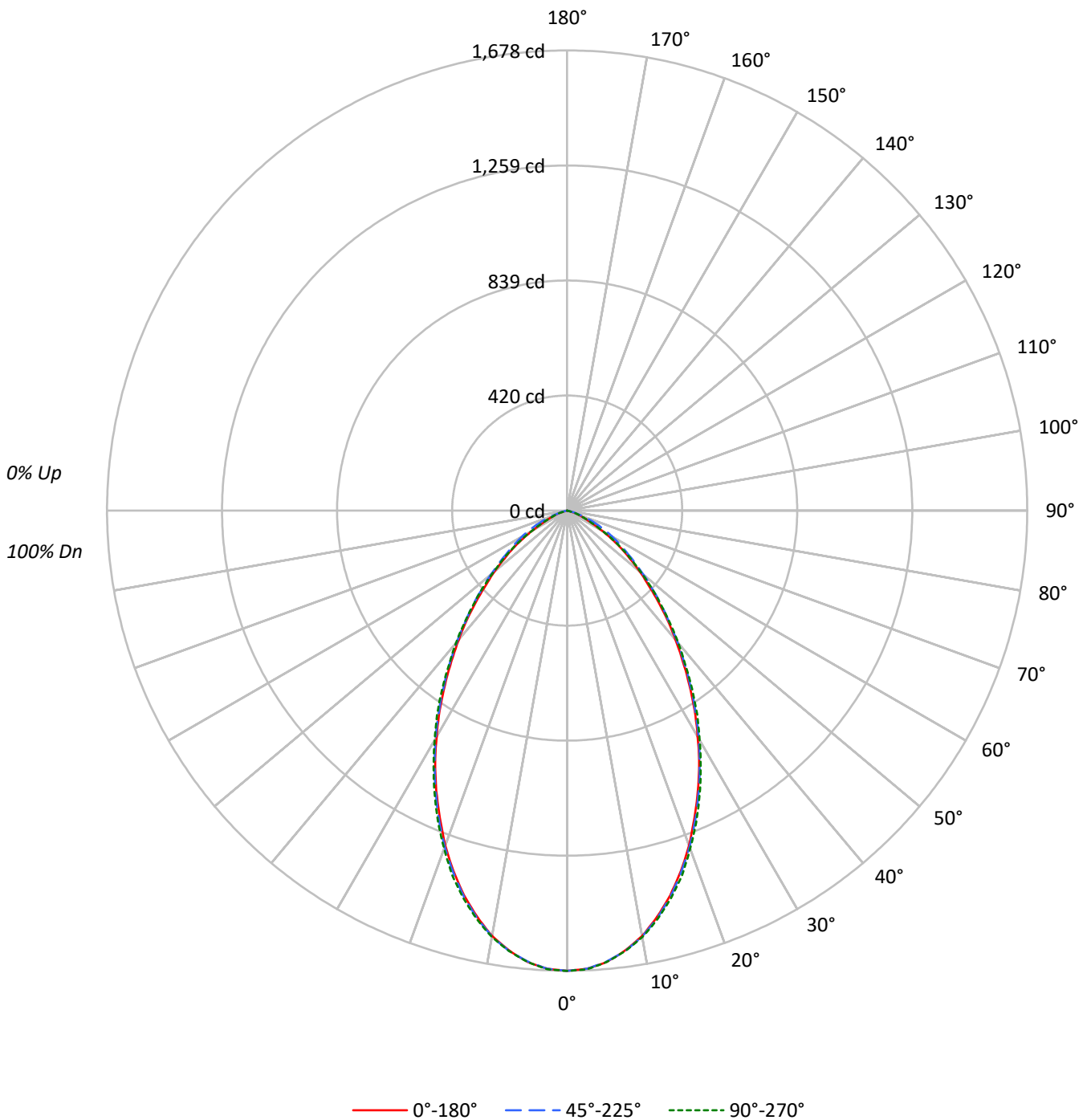
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	72269	72269	72269
5°	71426	71335	71426
10°	68859	68951	69047
15°	64722	64914	65204
20°	59510	59807	60101
25°	53607	53911	54324
30°	47300	47733	48051
35°	40824	41276	41734
40°	34561	35168	35409
45°	28509	29428	29294
50°	23122	24281	23698
55°	18136	19757	18624
60°	12633	16353	13003
65°	8130	12531	8130
70°	5426	7339	5426
75°	2146	3227	2146
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.3	6.8
10°-20°	407.3	17.7
20°-30°	519.7	22.6
30°-40°	491.2	21.4
40°-50°	373.1	16.2
50°-60°	230.4	10.0
60°-70°	100.6	4.4
70°-80°	21.0	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°	1082.3	47.1
0°-40°	1573.6	68.5
0°-60°	2177.1	94.7
0°-90°	2298.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2298.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1653	1653	1650	1653	1653	155
15°	1452	1452	1456	1461	1463	406
25°	1128	1128	1135	1139	1144	517
35°	777	783	785	792	794	485
45°	468	481	483	490	481	363
55°	242	257	263	261	248	216
65°	80	93	123	95	80	83
75°	13	19	19	19	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°	1678.5	1678.5	1678.5	1678.5	1678.5
2.5°	1672.0	1672.0	1672.0	1672.0	1674.2
5°	1652.6	1652.6	1650.5	1652.6	1652.6
7.5°	1618.1	1620.3	1620.3	1620.3	1620.3
10°	1575.0	1575.0	1577.1	1579.3	1579.3
12.5°	1516.7	1518.9	1521.0	1525.3	1525.3
15°	1452.0	1452.0	1456.3	1460.6	1462.8
17.5°	1378.6	1378.6	1382.9	1387.3	1393.7
20°	1298.8	1298.8	1305.3	1311.7	1311.7
22.5°	1212.5	1212.5	1221.1	1223.3	1229.8
25°	1128.4	1128.4	1134.8	1139.1	1143.5
27.5°	1042.1	1039.9	1046.4	1050.7	1055.0
30°	951.4	951.4	960.1	960.1	966.5
32.5°	865.1	865.1	871.6	875.9	882.4
35°	776.7	783.2	785.3	791.8	794.0
37.5°	692.5	703.3	703.3	712.0	707.7
40°	614.9	621.4	625.7	630.0	630.0
42.5°	541.5	550.2	550.2	556.6	554.5
45°	468.2	481.1	483.3	489.7	481.1
47.5°	401.3	416.4	418.5	422.9	418.5
50°	345.2	356.0	362.5	362.5	353.8
52.5°	289.1	302.0	308.5	308.5	297.7
55°	241.6	256.7	263.2	261.1	248.1
57.5°	192.0	209.3	224.4	215.7	198.5
60°	146.7	168.3	189.9	172.6	151.0
62.5°	105.7	127.3	155.3	127.3	110.0
65°	79.8	92.8	123.0	94.9	79.8
67.5°	58.3	66.9	90.6	69.0	58.3
70°	43.1	49.6	58.3	49.6	43.1
72.5°	28.0	34.5	34.5	34.5	28.0
75°	12.9	19.4	19.4	19.4	12.9
77.5°	0.0	4.3	8.6	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)