

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: P238100

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-64SMDC-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2323.3 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

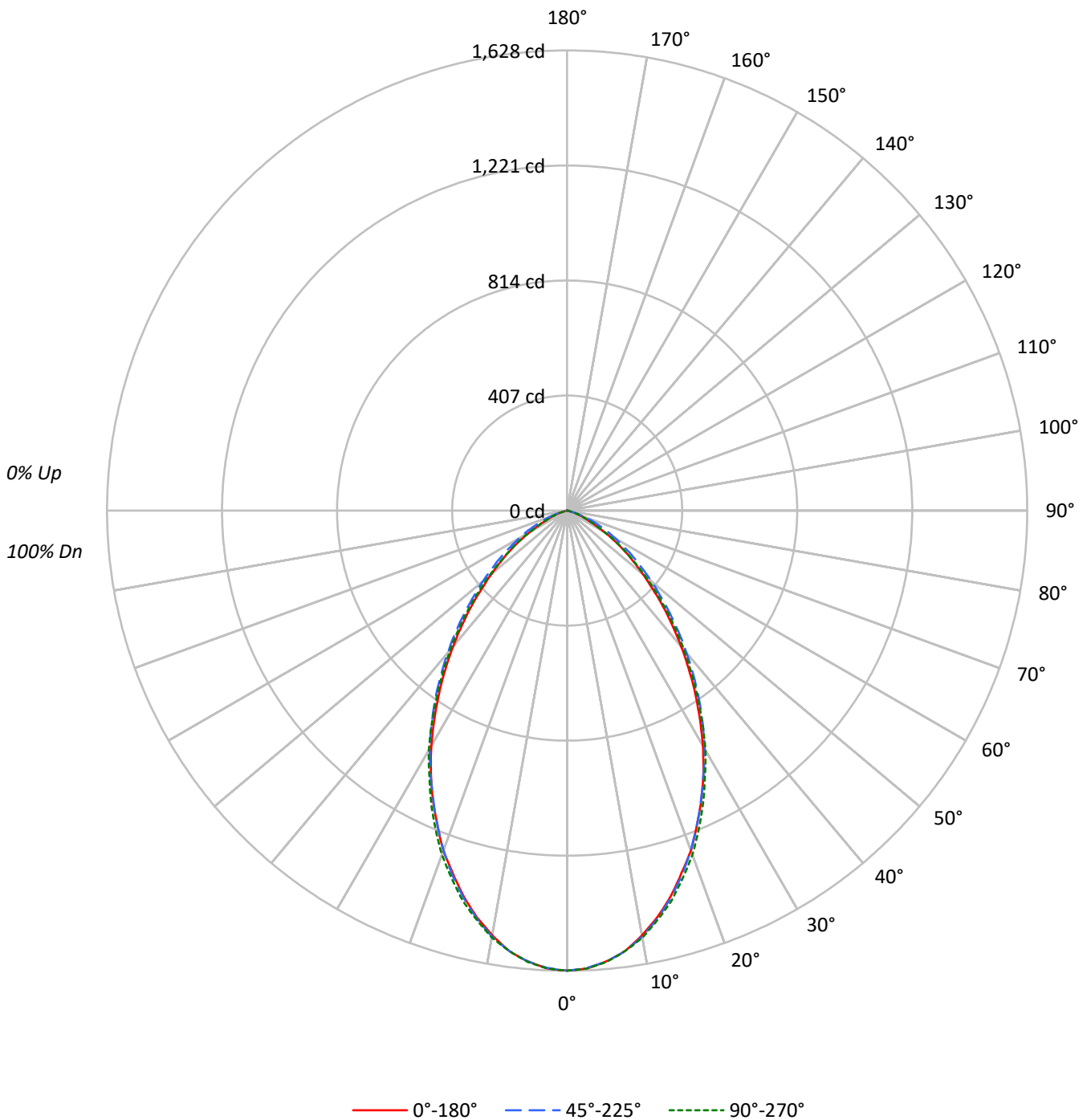
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	70086	70086	70086
5°	69187	69187	69278
10°	66712	66896	67079
15°	63015	63198	63661
20°	58676	58579	59345
25°	53431	53331	54124
30°	47753	48369	48682
35°	41523	42727	42286
40°	35286	36921	36106
45°	29239	31267	30000
50°	23397	26043	24094
55°	18414	21379	18729
60°	13072	16826	13244
65°	8476	12704	8680
70°	5753	7855	5753
75°	2761	3460	2761
80°	0	521	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	6.5
10°-20°	397.3	17.1
20°-30°	517.2	22.3
30°-40°	501.6	21.6
40°-50°	387.7	16.7
50°-60°	239.8	10.3
60°-70°	105.7	4.6
70°-80°	23.2	1.0
80°-90°	0.1	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°	1065.1	45.8
0°-40°	1566.8	67.4
0°-60°	2194.2	94.4
0°-90°	2323.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2323.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1601	1603	1601	1603	1603	151
15°	1414	1416	1418	1426	1428	396
25°	1125	1123	1123	1133	1139	515
35°	790	798	813	807	804	493
45°	480	499	514	507	493	371
55°	245	264	285	268	250	220
65°	83	100	125	100	85	88
75°	17	21	21	21	17	19
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°	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1621.6	1621.6	1619.5	1621.6	1621.6
5°	1600.8	1602.9	1600.8	1602.9	1602.9
7.5°	1571.7	1571.7	1571.7	1573.8	1571.7
10°	1525.9	1528.0	1530.1	1532.2	1534.3
12.5°	1474.0	1476.0	1478.1	1482.3	1482.3
15°	1413.7	1415.8	1417.8	1426.1	1428.2
17.5°	1345.1	1347.1	1351.3	1359.6	1361.7
20°	1280.6	1274.4	1278.5	1284.8	1295.2
22.5°	1201.6	1201.6	1201.6	1209.9	1218.3
25°	1124.7	1122.6	1122.6	1133.0	1139.3
27.5°	1043.6	1043.6	1045.7	1051.9	1056.1
30°	960.5	960.5	972.9	970.9	979.2
32.5°	873.2	879.4	891.9	887.7	889.8
35°	790.0	798.3	812.9	806.6	804.5
37.5°	706.8	717.2	733.9	727.6	721.4
40°	627.8	642.4	656.9	648.6	642.4
42.5°	550.9	567.5	584.2	575.9	567.5
45°	480.2	498.9	513.5	507.3	492.7
47.5°	409.5	432.4	447.0	440.7	426.2
50°	349.3	372.1	388.8	378.4	359.7
52.5°	295.2	316.0	332.6	320.2	301.4
55°	245.3	264.0	284.8	268.2	249.5
57.5°	197.5	218.3	237.0	222.4	201.7
60°	151.8	174.6	195.4	178.8	153.8
62.5°	112.3	135.1	160.1	137.2	114.3
65°	83.2	99.8	124.7	99.8	85.2
67.5°	62.4	72.8	93.6	74.8	62.4
70°	45.7	54.1	62.4	54.1	45.7
72.5°	31.2	37.4	37.4	37.4	31.2
75°	16.6	20.8	20.8	20.8	16.6
77.5°	2.1	6.2	8.3	6.2	2.1
80°	0.0	0.0	2.1	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)