

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: P238309

Luminaire Tested: **PRS615D010-S6M12-64SNDMB-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-64SNDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 1389.3 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

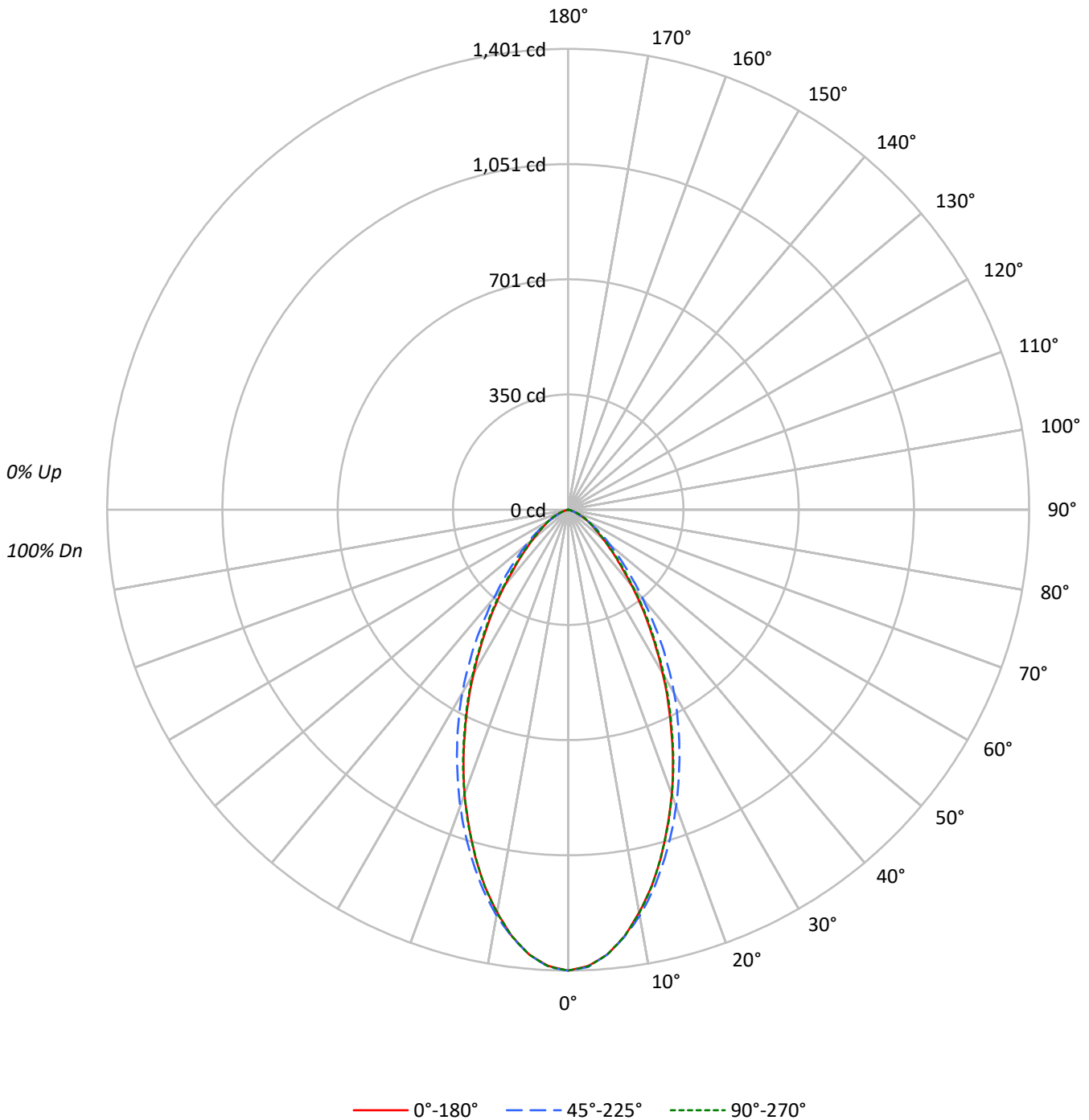
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92					92			
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75					75			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

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

	0°	45°	90°
0°	60330	60330	60330
5°	58684	58684	58684
10°	54348	54794	54401
15°	48644	49611	48591
20°	42176	43931	42236
25°	35250	37977	35492
30°	28522	32007	28905
35°	22318	25802	22785
40°	16766	19706	17199
45°	12342	14827	12811
50°	9224	11099	9652
55°	7176	8137	7371
60°	5821	5597	5924
65°	4289	3769	4411
70°	2883	2404	2883
75°	1264	1065	1264
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	9.1
10°-20°	307.1	22.1
20°-30°	352.5	25.4
30°-40°	285.4	20.5
40°-50°	174.9	12.6
50°-60°	93.9	6.8
60°-70°	40.6	2.9
70°-80°	8.7	0.6
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°	785.8	56.6
0°-40°	1071.2	77.1
0°-60°	1340.0	96.4
0°-90°	1389.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1389.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1358	1358	1358	1358	1358	126
15°	1091	1102	1113	1103	1090	304
25°	742	768	799	769	747	340
35°	425	451	491	456	434	266
45°	203	218	244	221	210	160
55°	96	103	108	104	98	88
65°	42	40	37	40	43	43
75°	8	8	6	8	8	9
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°	1401.2	1401.2	1401.2	1401.2	1401.2
2.5°	1388.4	1389.7	1391.0	1389.7	1389.7
5°	1357.8	1357.8	1357.8	1357.8	1357.8
7.5°	1308.1	1310.6	1309.4	1309.4	1308.1
10°	1243.1	1249.4	1253.3	1249.4	1244.3
12.5°	1171.7	1179.3	1187.0	1178.0	1172.9
15°	1091.3	1101.5	1113.0	1102.8	1090.1
17.5°	1004.7	1021.2	1037.8	1021.2	1007.2
20°	920.5	939.6	958.8	938.4	921.8
22.5°	831.3	849.1	878.4	851.7	835.1
25°	742.0	767.5	799.4	768.8	747.1
27.5°	656.6	683.4	721.6	688.5	663.0
30°	573.7	603.0	643.8	608.1	581.4
32.5°	496.0	525.3	564.8	530.4	503.6
35°	424.6	451.3	490.9	456.4	433.5
37.5°	359.5	381.2	415.6	386.3	368.5
40°	298.3	318.7	350.6	322.6	306.0
42.5°	244.8	263.9	294.5	269.0	255.0
45°	202.7	218.0	243.5	220.6	210.4
47.5°	167.0	181.0	201.4	182.3	173.4
50°	137.7	149.2	165.7	151.7	144.1
52.5°	114.7	124.9	137.7	126.2	118.6
55°	95.6	103.3	108.4	104.5	98.2
57.5°	80.3	82.9	84.1	84.1	82.9
60°	67.6	65.0	65.0	66.3	68.8
62.5°	56.1	51.0	49.7	52.3	57.4
65°	42.1	39.5	37.0	39.5	43.3
67.5°	31.9	28.0	26.8	29.3	33.1
70°	22.9	20.4	19.1	20.4	22.9
72.5°	14.0	14.0	11.5	14.0	14.0
75°	7.6	7.6	6.4	7.6	7.6
77.5°	2.5	2.5	1.3	2.5	3.8
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)