

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: P238219

Luminaire Tested: **PRS615D010-S6M12-61SNDH-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-61SNDH-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1384.2 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

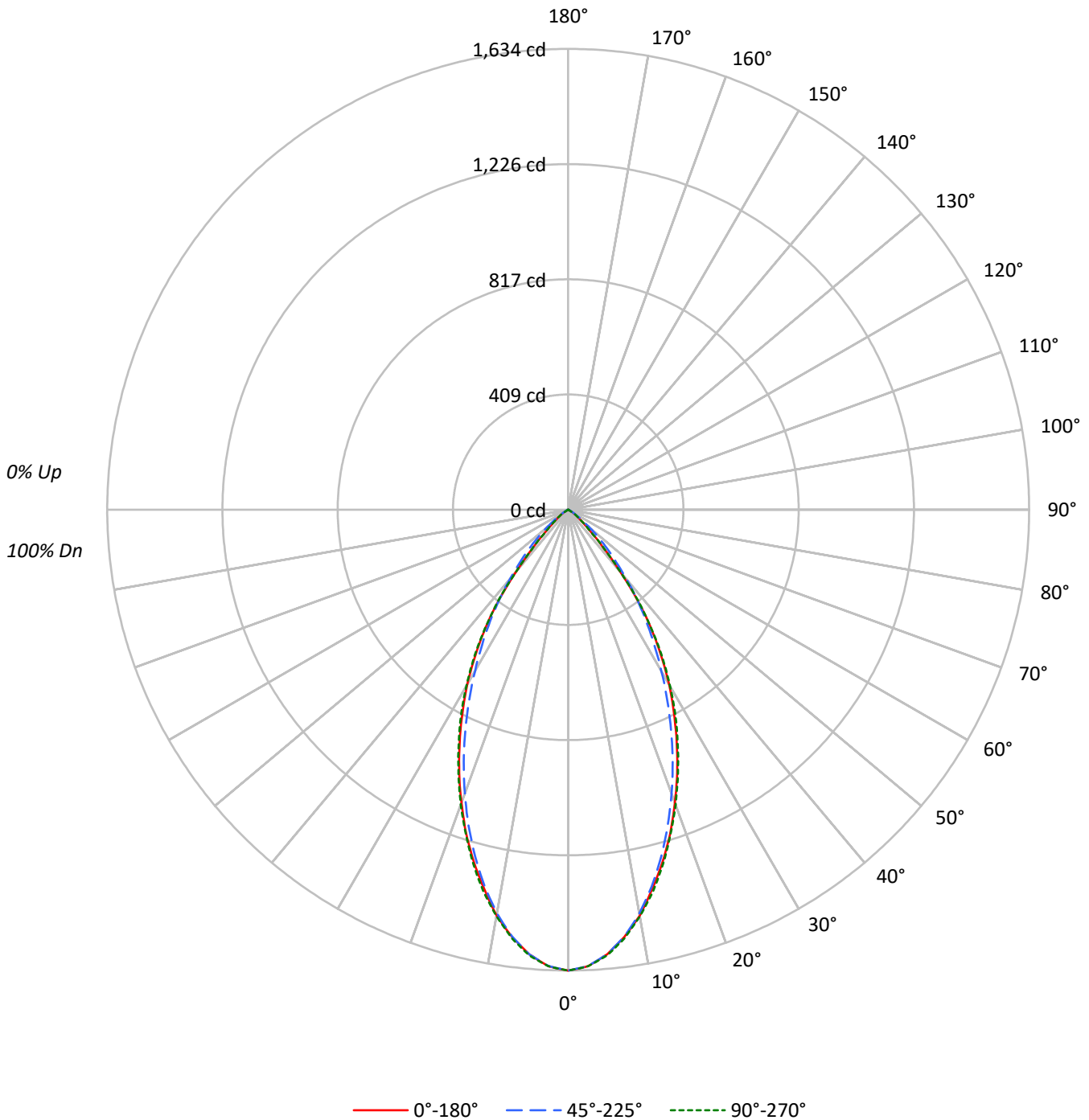
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	111	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	108	102	98	95	105	101	97	94	98	94	92		95	92	90		92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84		89	85	83		86	84	81	80
4	96	89	83	79	95	87	82	78	85	81	77		83	79	76		81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71		78	74	71		77	73	70	68
6	87	77	71	67	85	77	71	66	75	70	66		74	69	66		72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61		69	65	61		68	64	61	59
8	78	68	62	58	77	68	62	58	66	61	57		65	61	57		64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54		62	57	53		61	57	53	52
10	71	61	55	51	69	60	54	51	59	54	50		58	54	50		58	53	50	49

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

	0°	45°	90°
0°	70370	70370	70370
5°	68383	68383	68547
10°	63879	63542	63988
15°	57626	56770	57965
20°	50648	49067	50996
25°	43245	41003	43668
30°	35622	32833	35875
35°	26869	25329	27006
40°	16125	18059	16125
45°	7605	11800	7605
50°	3925	6745	3845
55°	2199	2965	2199
60°	878	1318	878
65°	255	520	255
70°	164	164	164
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.1	10.6
10°-20°	357.7	25.8
20°-30°	405.7	29.3
30°-40°	306.8	22.2
40°-50°	128.8	9.3
50°-60°	33.4	2.4
60°-70°	4.3	0.3
70°-80°	0.5	0.0
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°	910.5	65.8
0°-40°	1217.3	87.9
0°-60°	1379.4	99.7
0°-90°	1384.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1384.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1582	1583	1582	1585	1586	147
15°	1293	1284	1274	1286	1300	360
25°	910	885	863	890	919	416
35°	511	490	482	493	514	313
45°	125	153	194	153	125	108
55°	29	34	40	34	29	28
65°	2	1	5	1	2	3
75°	0	0	0	0	0	1
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°	1634.4	1634.4	1634.4	1634.4	1634.4
2.5°	1620.4	1619.1	1619.1	1620.4	1620.4
5°	1582.2	1583.4	1582.2	1584.7	1586.0
7.5°	1527.4	1527.4	1526.1	1528.6	1532.5
10°	1461.1	1456.0	1453.4	1458.5	1463.6
12.5°	1376.9	1373.1	1368.0	1376.9	1387.1
15°	1292.8	1283.8	1273.6	1286.4	1300.4
17.5°	1203.5	1185.7	1174.2	1190.8	1206.1
20°	1105.4	1087.5	1070.9	1088.8	1113.0
22.5°	1009.7	984.2	967.7	988.1	1016.1
25°	910.3	884.8	863.1	889.9	919.2
27.5°	810.8	784.1	759.9	789.2	823.6
30°	716.5	683.4	660.4	691.0	721.6
32.5°	612.0	581.4	568.6	590.3	622.2
35°	511.2	489.6	481.9	493.4	513.8
37.5°	401.6	396.5	399.0	404.1	408.0
40°	286.9	311.1	321.3	312.4	286.9
42.5°	191.2	224.4	251.2	224.4	193.8
45°	124.9	153.0	193.8	153.0	124.9
47.5°	81.6	103.3	144.1	102.0	81.6
50°	58.6	68.8	100.7	68.8	57.4
52.5°	42.1	48.4	65.0	48.4	42.1
55°	29.3	34.4	39.5	34.4	29.3
57.5°	19.1	22.9	22.9	22.9	19.1
60°	10.2	14.0	15.3	14.0	10.2
62.5°	2.5	6.4	8.9	6.4	2.5
65°	2.5	1.3	5.1	1.3	2.5
67.5°	1.3	1.3	2.5	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	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)