

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: P238049

Luminaire Tested: **PRS615D010-S6M12-64SNDH-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-64SNDH-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1500.0 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

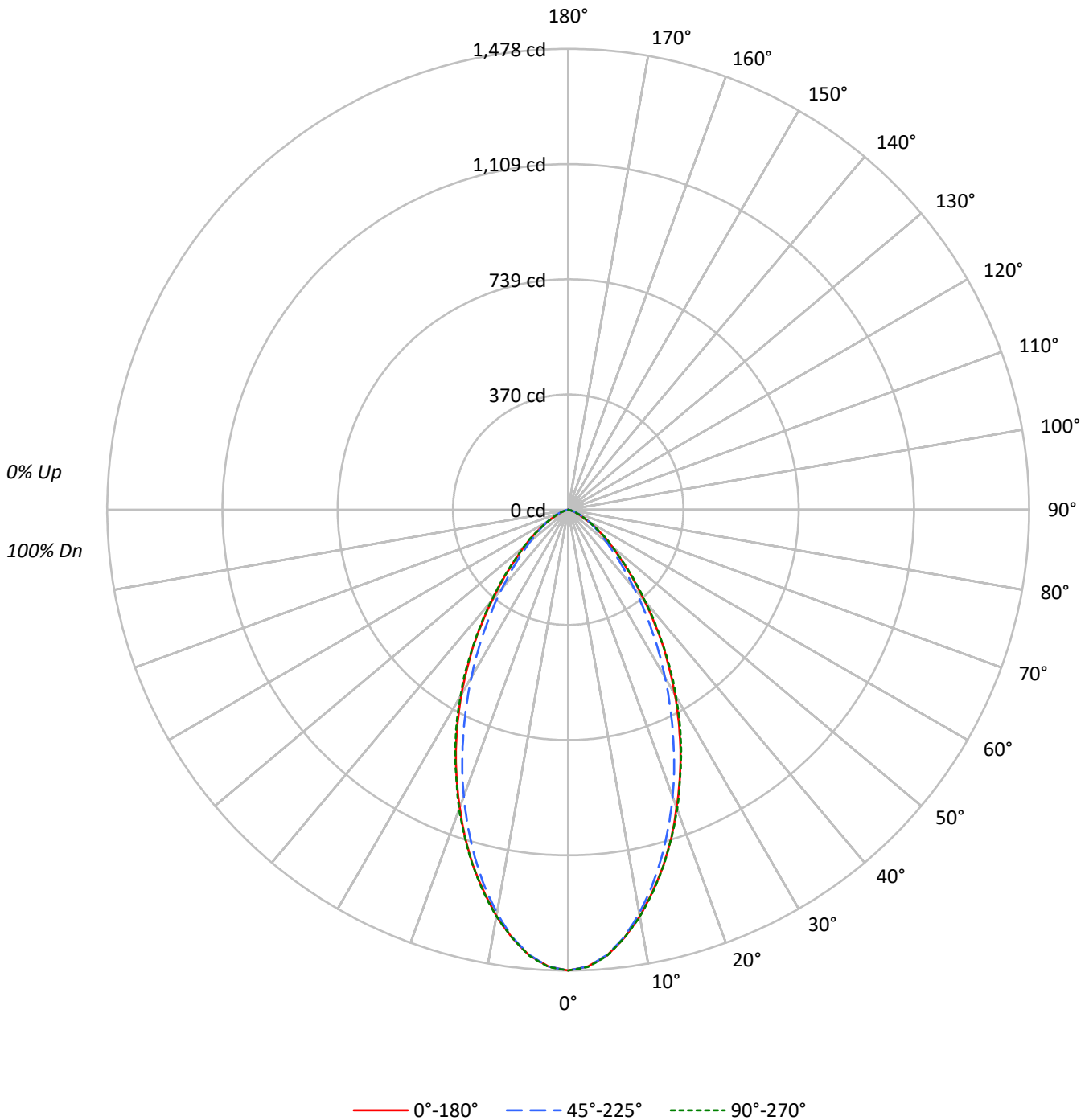
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

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

	0°	45°	90°
0°	63641	63641	63641
5°	61995	61934	62051
10°	57846	57439	57903
15°	52602	51479	52660
20°	46543	44848	46850
25°	40457	37754	40708
30°	34041	30814	34304
35°	27705	24294	27773
40°	21291	18536	21588
45°	16051	13950	16373
50°	12244	10644	12506
55°	9143	8355	9143
60°	6389	6725	6501
65°	4320	5124	4452
70°	2996	3336	2832
75°	1314	1547	1314
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	8.9
10°-20°	325.4	21.7
20°-30°	376.4	25.1
30°-40°	308.1	20.5
40°-50°	192.7	12.8
50°-60°	106.0	7.1
60°-70°	47.3	3.2
70°-80°	10.8	0.7
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°	835.0	55.7
0°-40°	1143.1	76.2
0°-60°	1441.8	96.1
0°-90°	1500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1434	1433	1433	1436	1436	133
15°	1180	1167	1155	1170	1181	329
25°	852	818	795	822	857	389
35°	527	487	462	491	528	328
45°	264	241	229	245	269	207
55°	122	117	111	119	122	110
65°	42	46	50	46	44	44
75°	8	9	9	9	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°	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1466.1	1467.5	1466.1	1467.5	1467.5
5°	1434.4	1433.0	1433.0	1435.7	1435.7
7.5°	1384.0	1382.7	1381.4	1384.0	1384.0
10°	1323.1	1320.5	1313.8	1321.8	1324.4
12.5°	1252.9	1247.6	1238.3	1247.6	1255.6
15°	1180.1	1166.8	1154.9	1169.5	1181.4
17.5°	1100.6	1083.4	1067.5	1082.1	1101.9
20°	1015.8	996.0	978.8	997.3	1022.5
22.5°	935.1	907.2	887.4	909.9	936.4
25°	851.6	818.5	794.7	822.5	856.9
27.5°	766.8	731.1	705.9	736.4	774.8
30°	684.7	646.3	619.8	652.9	690.0
32.5°	602.6	566.9	540.4	572.2	611.9
35°	527.1	487.4	462.2	491.4	528.4
37.5°	449.0	413.2	393.4	418.5	455.6
40°	378.8	347.0	329.8	352.3	384.1
42.5°	317.9	290.1	275.5	292.7	324.5
45°	263.6	241.0	229.1	245.0	268.9
47.5°	218.5	201.3	189.4	204.0	222.5
50°	182.8	166.9	158.9	169.5	186.7
52.5°	151.0	140.4	131.1	141.7	155.0
55°	121.8	116.6	111.3	119.2	121.8
57.5°	95.4	94.0	92.7	95.4	96.7
60°	74.2	75.5	78.1	75.5	75.5
62.5°	57.0	59.6	64.9	59.6	58.3
65°	42.4	46.4	50.3	46.4	43.7
67.5°	31.8	34.4	37.1	34.4	31.8
70°	23.8	25.2	26.5	25.2	22.5
72.5°	14.6	17.2	17.2	17.2	14.6
75°	7.9	9.3	9.3	9.3	7.9
77.5°	1.3	4.0	4.0	4.0	1.3
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)