

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: P237999

Luminaire Tested: **PRS615D010-S6M12-64SNDMW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-64SNDMW  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1527.1 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

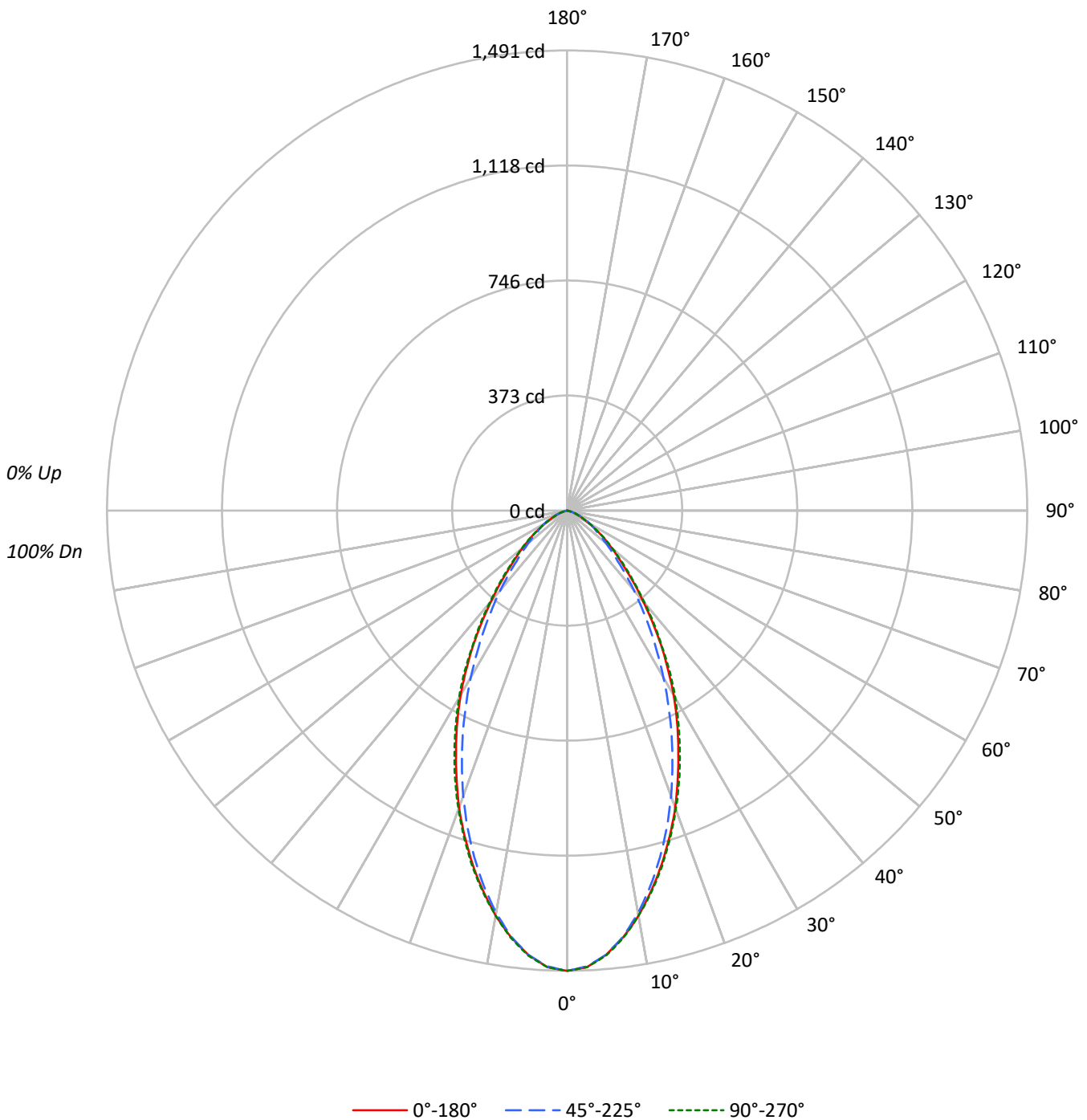
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75				75
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68				68
5	87	78	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62				62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57				57
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52				52
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48				48
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42				42

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

	0°	45°	90°
0°	64205	64205	64205
5°	62436	62436	62552
10°	58270	57863	58270
15°	52821	51809	53057
20°	46914	45081	47157
25°	40480	38015	41051
30°	34289	31043	34816
35°	27784	24494	28062
40°	21476	18784	21926
45°	16215	14108	16781
50°	12573	10972	12934
55°	9593	8693	9796
60°	6992	7337	6992
65°	5023	5695	4880
70°	3525	4028	3525
75°	1996	2213	1996
80°	669	669	669
85°	642	642	642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.2	8.8
10°-20°	327.5	21.4
20°-30°	378.5	24.8
30°-40°	310.5	20.3
40°-50°	196.3	12.9
50°-60°	111.4	7.3
60°-70°	52.9	3.5
70°-80°	14.8	1.0
80°-90°	1.1	0.1
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°	840.2	55.0
0°-40°	1150.7	75.4
0°-60°	1458.4	95.5
0°-90°	1527.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1445	1445	1445	1449	1447	134
15°	1185	1176	1162	1178	1190	331
25°	852	822	800	828	864	391
35°	529	490	466	498	534	330
45°	266	245	232	249	276	210
55°	128	122	116	125	130	116
65°	49	52	56	52	48	50
75°	12	13	13	13	12	13
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1480.6	1479.2	1477.9	1479.2	1480.6
5°	1444.6	1444.6	1444.6	1448.6	1447.3
7.5°	1394.0	1392.7	1391.4	1395.4	1396.7
10°	1332.8	1327.4	1323.5	1330.1	1332.8
12.5°	1260.9	1254.2	1246.2	1255.5	1264.9
15°	1185.0	1175.7	1162.3	1178.3	1190.3
17.5°	1105.1	1087.8	1074.5	1091.8	1110.4
20°	1023.9	1002.6	983.9	1002.6	1029.2
22.5°	937.3	909.4	890.7	914.7	948.0
25°	852.1	821.5	800.2	828.2	864.1
27.5°	770.9	733.6	709.7	741.6	781.6
30°	689.7	649.7	624.4	656.4	700.3
32.5°	607.1	568.5	541.9	576.5	619.1
35°	528.6	490.0	466.0	498.0	533.9
37.5°	451.4	415.4	396.8	422.1	462.0
40°	382.1	350.2	334.2	356.8	390.1
42.5°	322.2	292.9	279.6	298.2	330.2
45°	266.3	245.0	231.7	249.0	275.6
47.5°	223.7	205.0	194.4	209.0	230.3
50°	187.7	173.1	163.8	175.8	193.1
52.5°	157.1	145.1	137.1	147.8	161.1
55°	127.8	122.5	115.8	125.2	130.5
57.5°	101.2	99.9	99.9	101.2	102.5
60°	81.2	81.2	85.2	82.5	81.2
62.5°	62.6	65.2	71.9	65.2	62.6
65°	49.3	51.9	55.9	51.9	47.9
67.5°	37.3	39.9	42.6	39.9	35.9
70°	28.0	30.6	32.0	30.6	28.0
72.5°	20.0	21.3	21.3	21.3	18.6
75°	12.0	13.3	13.3	13.3	12.0
77.5°	4.0	6.7	6.7	6.7	4.0
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	1.3
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)