

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: P238284

Luminaire Tested: **PRS615D010-S6M12-61SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SMDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1420.6 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

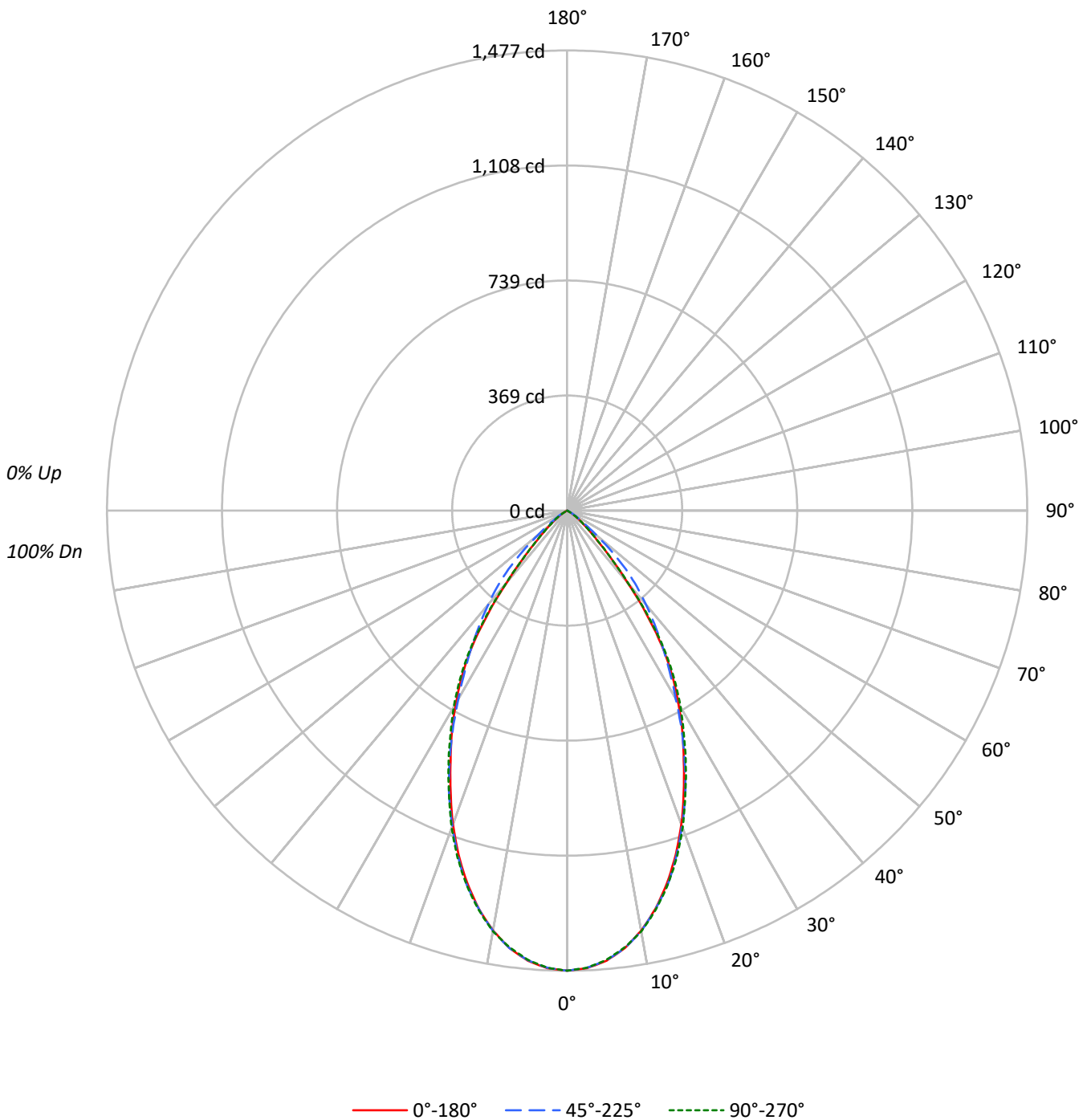
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86	86	86	86		
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67	67	67	67		
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62	62	62	62	62	62	62		
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58	58		
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54	54	54	54	54	54	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63580	63580	63580
5°	62669	62613	62557
10°	59844	59901	59962
15°	55197	55495	55495
20°	49113	49356	49663
25°	42067	42447	42823
30°	35483	34687	36208
35°	27926	28062	28557
40°	16991	22077	17289
45°	8592	16215	8756
50°	4729	8205	4729
55°	2597	3400	2702
60°	689	1490	689
65°	0	540	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	9.6
10°-20°	346.1	24.4
20°-30°	408.7	28.8
30°-40°	333.7	23.5
40°-50°	153.2	10.8
50°-60°	39.8	2.8
60°-70°	3.3	0.2
70°-80°	0.0	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°	890.7	62.7
0°-40°	1224.3	86.2
0°-60°	1417.3	99.8
0°-90°	1420.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1420.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1450	1450	1449	1449	1447	136
15°	1238	1241	1245	1246	1245	345
25°	886	884	894	899	901	407
35°	531	546	534	554	543	322
45°	141	174	266	176	144	121
55°	35	43	45	43	36	32
65°	0	0	5	0	0	1
75°	0	0	0	0	0	0
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°	1476.7	1476.7	1476.7	1476.7	1476.7
2.5°	1470.0	1470.0	1468.7	1468.7	1468.7
5°	1450.0	1450.0	1448.7	1448.7	1447.4
7.5°	1416.7	1416.7	1416.7	1415.4	1414.1
10°	1368.8	1368.8	1370.1	1370.1	1371.5
12.5°	1308.9	1310.2	1310.2	1312.9	1312.9
15°	1238.3	1241.0	1245.0	1246.3	1245.0
17.5°	1158.4	1161.1	1165.1	1170.4	1169.1
20°	1071.9	1073.2	1077.2	1085.2	1083.9
22.5°	977.3	980.0	990.7	993.3	990.7
25°	885.5	884.1	893.5	898.8	901.4
27.5°	801.6	794.9	796.3	804.2	812.2
30°	713.7	711.0	697.7	719.0	728.3
32.5°	627.2	628.5	611.2	633.8	639.1
35°	531.3	545.9	533.9	553.9	543.3
37.5°	416.8	456.7	460.7	463.4	427.4
40°	302.3	354.2	392.8	356.9	307.6
42.5°	210.4	253.0	331.6	258.3	209.1
45°	141.1	174.4	266.3	175.8	143.8
47.5°	98.5	117.2	193.1	118.5	98.5
50°	70.6	81.2	122.5	82.6	70.6
52.5°	51.9	58.6	74.6	58.6	51.9
55°	34.6	42.6	45.3	42.6	36.0
57.5°	21.3	28.0	29.3	28.0	20.0
60°	8.0	14.6	17.3	14.6	8.0
62.5°	1.3	4.0	10.7	5.3	1.3
65°	0.0	0.0	5.3	0.0	0.0
67.5°	0.0	0.0	1.3	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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)