

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: P238004

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238004
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.4 lumens
Efficiency: N/A
Efficacy: 120.5 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

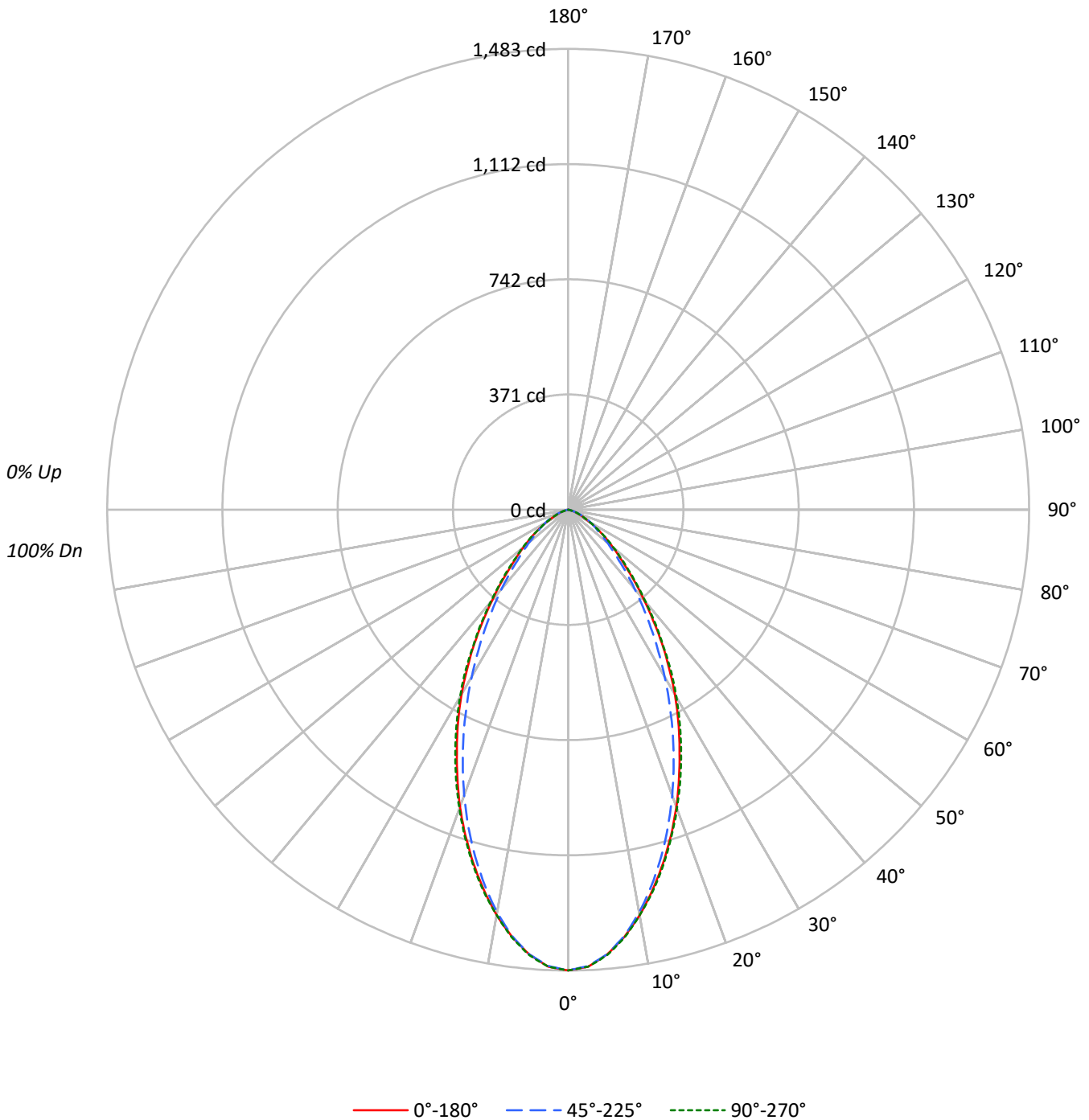
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	77	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°	63839	63839	63839
5°	62081	62081	62194
10°	57938	57531	57938
15°	52518	51515	52754
20°	46648	44825	46886
25°	40252	37796	40818
30°	34096	30869	34622
35°	27626	24357	27905
40°	21352	18677	21802
45°	16124	14029	16684
50°	12506	10905	12861
55°	9541	8648	9736
60°	6958	7294	6958
65°	4992	5664	4860
70°	3500	4003	3500
75°	1980	2196	1980
80°	645	645	645
85°	642	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	8.8
10°-20°	325.6	21.4
20°-30°	376.4	24.8
30°-40°	308.7	20.3
40°-50°	195.1	12.9
50°-60°	110.8	7.3
60°-70°	52.6	3.5
70°-80°	14.7	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°	835.4	55.0
0°-40°	1144.2	75.4
0°-60°	1450.1	95.5
0°-90°	1518.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1436	1436	1436	1440	1439	134
15°	1178	1169	1156	1172	1184	329
25°	847	817	796	823	859	389
35°	526	487	463	495	531	328
45°	265	244	230	248	274	209
55°	127	122	115	124	130	115
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°	1482.7	1482.7	1482.7	1482.7	1482.7
2.5°	1472.1	1470.8	1469.5	1470.8	1472.1
5°	1436.4	1436.4	1436.4	1440.4	1439.0
7.5°	1386.1	1384.8	1383.4	1387.4	1388.7
10°	1325.2	1319.9	1315.9	1322.5	1325.2
12.5°	1253.7	1247.1	1239.1	1248.4	1257.7
15°	1178.2	1169.0	1155.7	1171.6	1183.5
17.5°	1098.8	1081.6	1068.4	1085.6	1104.1
20°	1018.1	996.9	978.3	996.9	1023.3
22.5°	932.0	904.2	885.7	909.5	942.6
25°	847.3	816.8	795.6	823.4	859.2
27.5°	766.5	729.5	705.6	737.4	777.1
30°	685.8	646.0	620.9	652.7	696.4
32.5°	603.7	565.3	538.8	573.2	615.6
35°	525.6	487.2	463.4	495.1	530.9
37.5°	448.8	413.0	394.5	419.7	459.4
40°	379.9	348.2	332.3	354.8	387.9
42.5°	320.4	291.3	278.0	296.5	328.3
45°	264.8	243.6	230.4	247.6	274.0
47.5°	222.4	203.9	193.3	207.8	229.0
50°	186.7	172.1	162.8	174.8	192.0
52.5°	156.2	144.3	136.4	146.9	160.2
55°	127.1	121.8	115.2	124.4	129.7
57.5°	100.6	99.3	99.3	100.6	101.9
60°	80.8	80.8	84.7	82.1	80.8
62.5°	62.2	64.9	71.5	64.9	62.2
65°	49.0	51.6	55.6	51.6	47.7
67.5°	37.1	39.7	42.4	39.7	35.7
70°	27.8	30.4	31.8	30.4	27.8
72.5°	19.9	21.2	21.2	21.2	18.5
75°	11.9	13.2	13.2	13.2	11.9
77.5°	4.0	6.6	6.6	6.6	4.0
80°	2.6	2.6	2.6	2.6	2.6
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)