

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: P238229

Luminaire Tested: **PRS615D010-S6M12-61SNDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238229
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437.7 lumens
Efficiency: N/A
Efficacy: 114.1 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

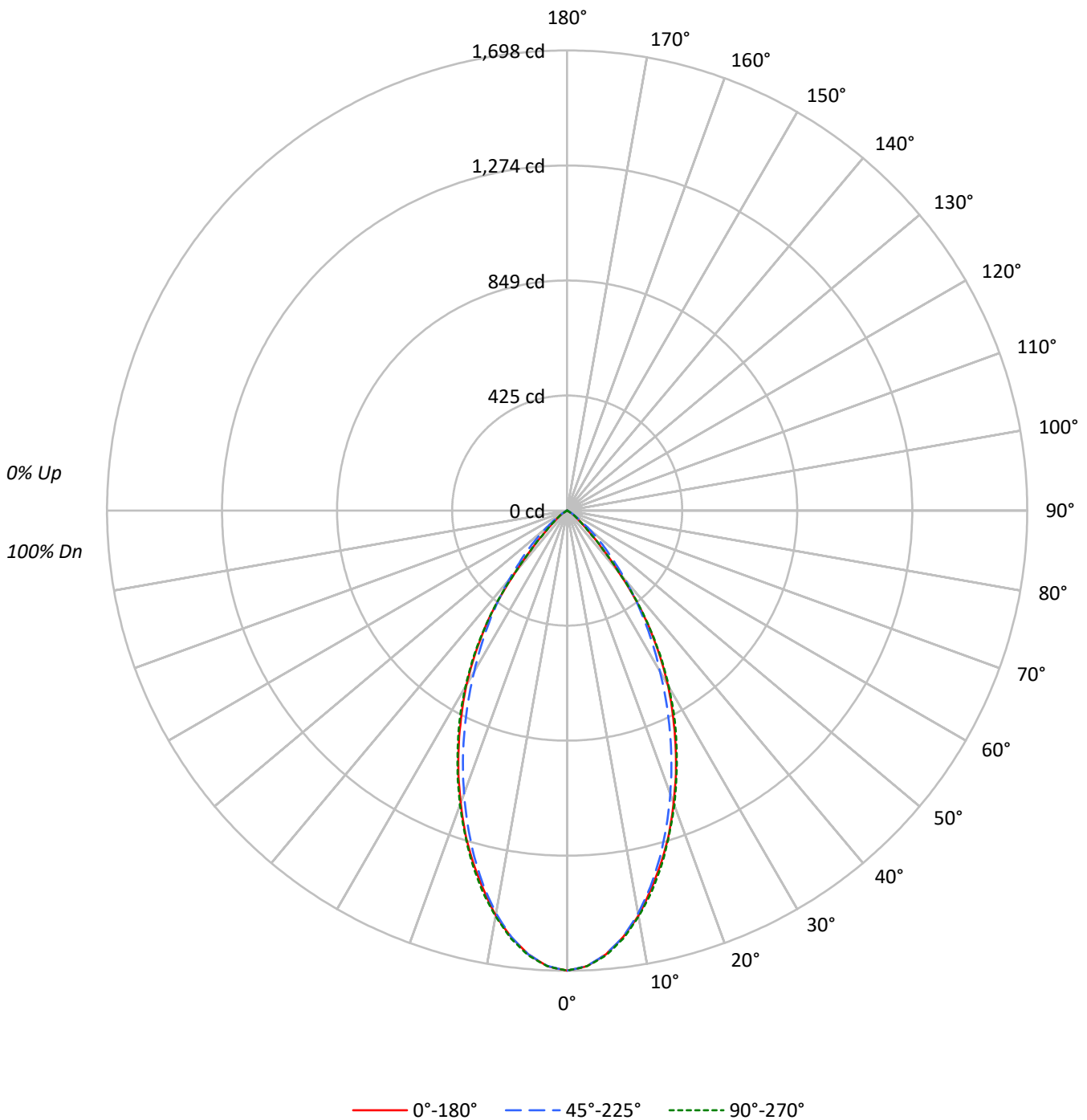
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	73091	73091	73091
5°	71024	71024	71197
10°	66345	66000	66459
15°	59850	58963	60207
20°	52605	50964	52967
25°	44918	42590	45355
30°	36999	34100	37262
35°	27910	26307	28047
40°	16744	18756	16744
45°	7904	12257	7904
50°	4079	7006	3992
55°	2289	3078	2289
60°	913	1369	913
65°	265	540	265
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°	152.8	10.6
10°-20°	371.5	25.8
20°-30°	421.4	29.3
30°-40°	318.6	22.2
40°-50°	133.8	9.3
50°-60°	34.7	2.4
60°-70°	4.4	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°	945.6	65.8
0°-40°	1264.3	87.9
0°-60°	1432.8	99.7
0°-90°	1437.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1643	1645	1643	1646	1647	153
15°	1343	1333	1323	1336	1351	374
25°	946	919	896	924	955	432
35°	531	508	500	512	534	325
45°	130	159	201	159	130	112
55°	30	36	41	36	30	29
65°	3	1	5	1	3	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°	1697.6	1697.6	1697.6	1697.6	1697.6
2.5°	1683.0	1681.7	1681.7	1683.0	1683.0
5°	1643.3	1644.6	1643.3	1645.9	1647.3
7.5°	1586.4	1586.4	1585.0	1587.7	1591.7
10°	1517.5	1512.2	1509.6	1514.9	1520.1
12.5°	1430.1	1426.1	1420.8	1430.1	1440.7
15°	1342.7	1333.4	1322.8	1336.1	1350.7
17.5°	1250.0	1231.5	1219.6	1236.8	1252.7
20°	1148.1	1129.5	1112.3	1130.8	1156.0
22.5°	1048.7	1022.3	1005.0	1026.2	1055.4
25°	945.5	919.0	896.5	924.3	954.7
27.5°	842.2	814.4	789.2	819.7	855.4
30°	744.2	709.8	685.9	717.7	749.5
32.5°	635.6	603.8	590.6	613.1	646.2
35°	531.0	508.5	500.5	512.5	533.6
37.5°	417.1	411.8	414.5	419.8	423.7
40°	297.9	323.1	333.7	324.4	297.9
42.5°	198.6	233.1	260.9	233.1	201.3
45°	129.8	158.9	201.3	158.9	129.8
47.5°	84.7	107.3	149.6	105.9	84.7
50°	60.9	71.5	104.6	71.5	59.6
52.5°	43.7	50.3	67.5	50.3	43.7
55°	30.5	35.8	41.0	35.8	30.5
57.5°	19.9	23.8	23.8	23.8	19.9
60°	10.6	14.6	15.9	14.6	10.6
62.5°	2.6	6.6	9.3	6.6	2.6
65°	2.6	1.3	5.3	1.3	2.6
67.5°	1.3	1.3	2.6	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)