

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: P238244

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SMDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 1382.1 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

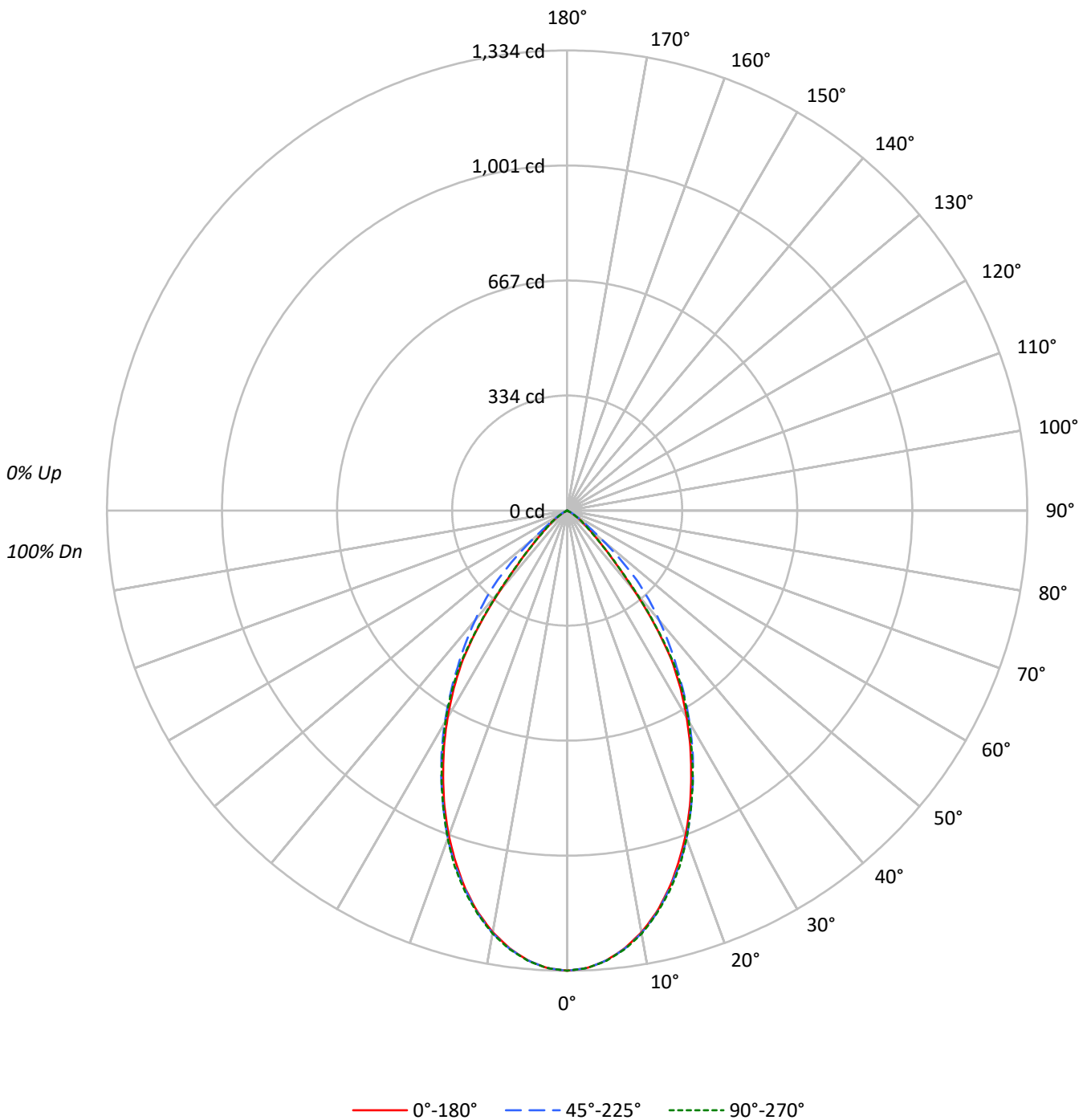
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93					93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78					78			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72					72			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66					66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61					61			
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57					57			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52					52			
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49					49			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	57432	57432	57432
5°	56567	56567	56623
10°	54269	54383	54440
15°	50668	50788	50966
20°	45961	46382	46382
25°	40423	40989	40927
30°	34473	35264	35065
35°	27684	29072	28241
40°	16884	23280	17407
45°	8945	17323	9024
50°	5144	8956	5144
55°	3175	3873	3175
60°	1137	1826	1137
65°	265	672	265
70°	164	164	164
75°	216	216	216
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	8.9
10°-20°	318.3	23.0
20°-30°	392.9	28.4
30°-40°	335.5	24.3
40°-50°	160.6	11.6
50°-60°	45.2	3.3
60°-70°	5.9	0.4
70°-80°	0.9	0.1
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°	834.1	60.4
0°-40°	1169.6	84.6
0°-60°	1375.3	99.5
0°-90°	1382.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1382.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1309	1310	1309	1310	1310	123
15°	1137	1138	1139	1143	1143	317
25°	851	855	863	863	862	389
35°	527	546	553	553	537	317
45°	147	183	284	184	148	123
55°	42	49	52	48	42	38
65°	3	3	7	3	3	4
75°	1	1	1	1	1	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°	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1327.3	1327.3	1327.3	1327.3	1327.3
5°	1308.8	1310.1	1308.8	1310.1	1310.1
7.5°	1279.7	1281.0	1281.0	1282.3	1282.3
10°	1241.3	1242.6	1243.9	1243.9	1245.2
12.5°	1193.6	1193.6	1196.3	1197.6	1197.6
15°	1136.7	1138.1	1139.4	1143.4	1143.4
17.5°	1071.9	1074.5	1078.5	1079.8	1082.5
20°	1003.1	1003.1	1012.3	1011.0	1012.3
22.5°	929.0	932.9	936.9	939.6	936.9
25°	850.9	854.9	862.8	862.8	861.5
27.5°	772.8	776.8	787.4	783.4	780.8
30°	693.4	697.4	709.3	702.7	705.3
32.5°	611.4	623.3	629.9	629.9	623.3
35°	526.7	546.5	553.1	553.1	537.3
37.5°	416.8	464.5	483.0	468.5	422.1
40°	300.4	362.6	414.2	369.2	309.7
42.5°	210.4	263.3	350.7	267.3	213.1
45°	146.9	182.6	284.5	183.9	148.2
47.5°	103.2	127.0	206.4	127.0	103.2
50°	76.8	90.0	133.7	88.7	76.8
52.5°	58.2	66.2	82.0	64.8	58.2
55°	42.3	49.0	51.6	47.6	42.3
57.5°	26.5	33.1	33.1	33.1	25.1
60°	13.2	18.5	21.2	18.5	13.2
62.5°	4.0	7.9	13.2	7.9	4.0
65°	2.6	2.6	6.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3
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)