

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: P238233

Luminaire Tested: **PRS610D010-S6M12-61SMDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238233
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: PRS610D010-S6M12-61SMDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 999.5 lumens
Efficiency: N/A
Efficacy: 99.9 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

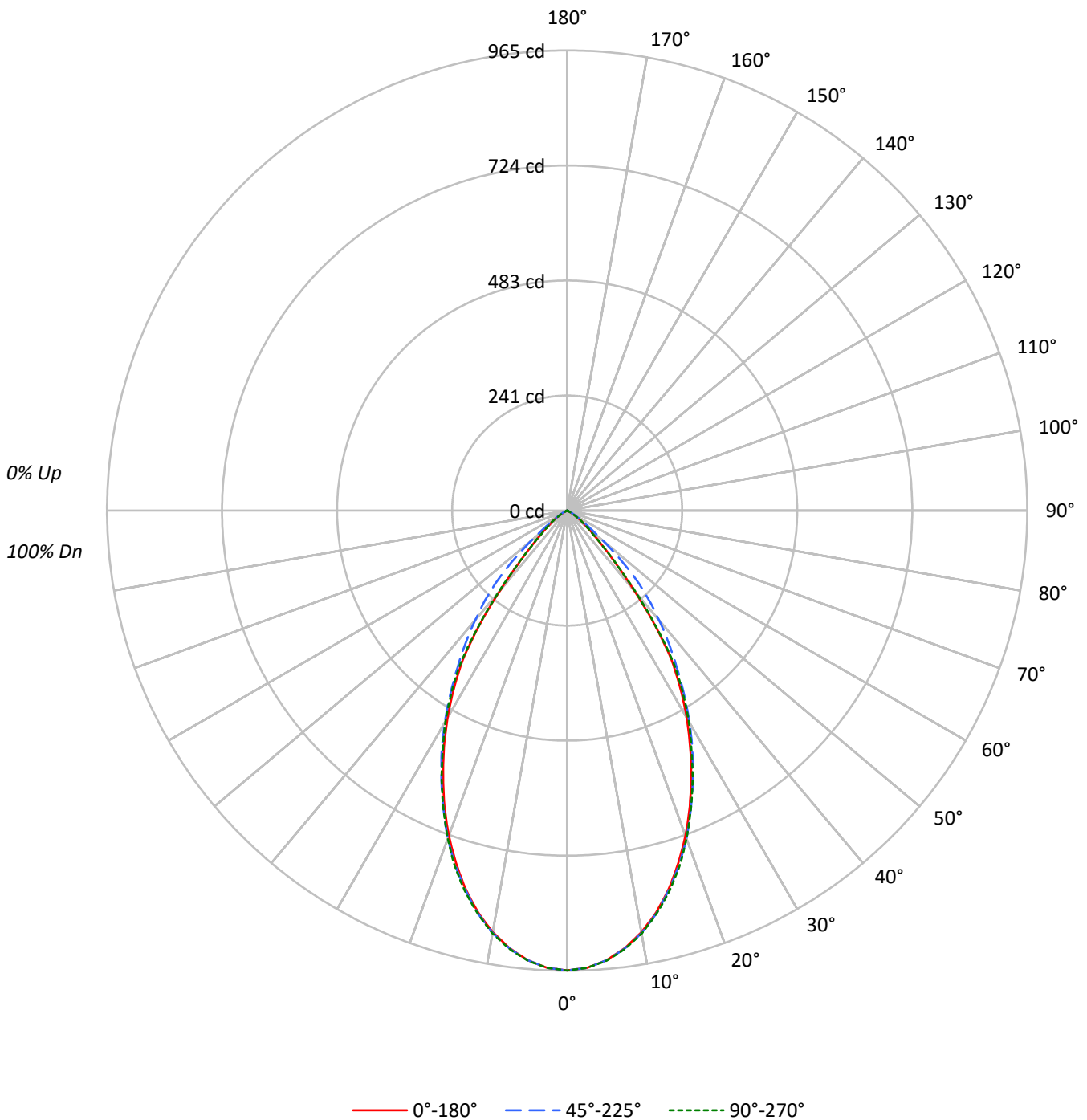
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41531	41531	41531
5°	40904	40904	40947
10°	39243	39326	39370
15°	36640	36725	36854
20°	33237	33544	33544
25°	29231	29639	29597
30°	24928	25500	25355
35°	20021	21025	20420
40°	12208	16833	12584
45°	6467	12525	6527
50°	3718	6477	3718
55°	2297	2800	2297
60°	827	1318	827
65°	194	489	194
70°	126	126	126
75°	166	166	166
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	8.9
10°-20°	230.2	23.0
20°-30°	284.1	28.4
30°-40°	242.6	24.3
40°-50°	116.1	11.6
50°-60°	32.6	3.3
60°-70°	4.3	0.4
70°-80°	0.7	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°	603.2	60.3
0°-40°	845.8	84.6
0°-60°	994.5	99.5
0°-90°	999.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	999.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	946	947	946	947	947	89
15°	822	823	824	827	827	229
25°	615	618	624	624	623	282
35°	381	395	400	400	388	230
45°	106	132	206	133	107	89
55°	31	35	37	34	31	27
65°	2	2	5	2	2	3
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°	964.6	964.6	964.6	964.6	964.6
2.5°	959.8	959.8	959.8	959.8	959.8
5°	946.4	947.4	946.4	947.4	947.4
7.5°	925.4	926.3	926.3	927.3	927.3
10°	897.6	898.6	899.5	899.5	900.5
12.5°	863.2	863.2	865.1	866.0	866.0
15°	822.0	823.0	823.9	826.8	826.8
17.5°	775.1	777.0	779.9	780.9	782.8
20°	725.4	725.4	732.1	731.1	732.1
22.5°	671.8	674.6	677.5	679.4	677.5
25°	615.3	618.2	623.9	623.9	623.0
27.5°	558.9	561.7	569.4	566.5	564.6
30°	501.4	504.3	512.9	508.1	510.0
32.5°	442.1	450.7	455.5	455.5	450.7
35°	380.9	395.2	400.0	400.0	388.5
37.5°	301.4	335.9	349.3	338.8	305.3
40°	217.2	262.2	299.5	267.0	223.9
42.5°	152.2	190.4	253.6	193.3	154.1
45°	106.2	132.1	205.7	133.0	107.2
47.5°	74.6	91.9	149.3	91.9	74.6
50°	55.5	65.1	96.7	64.1	55.5
52.5°	42.1	47.8	59.3	46.9	42.1
55°	30.6	35.4	37.3	34.4	30.6
57.5°	19.1	23.9	23.9	23.9	18.2
60°	9.6	13.4	15.3	13.4	9.6
62.5°	2.9	5.7	9.6	5.7	2.9
65°	1.9	1.9	4.8	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
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)