

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: P238183

Luminaire Tested: **PRS610D010-S6M12-61SNDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SNDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP 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: 1096.7 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

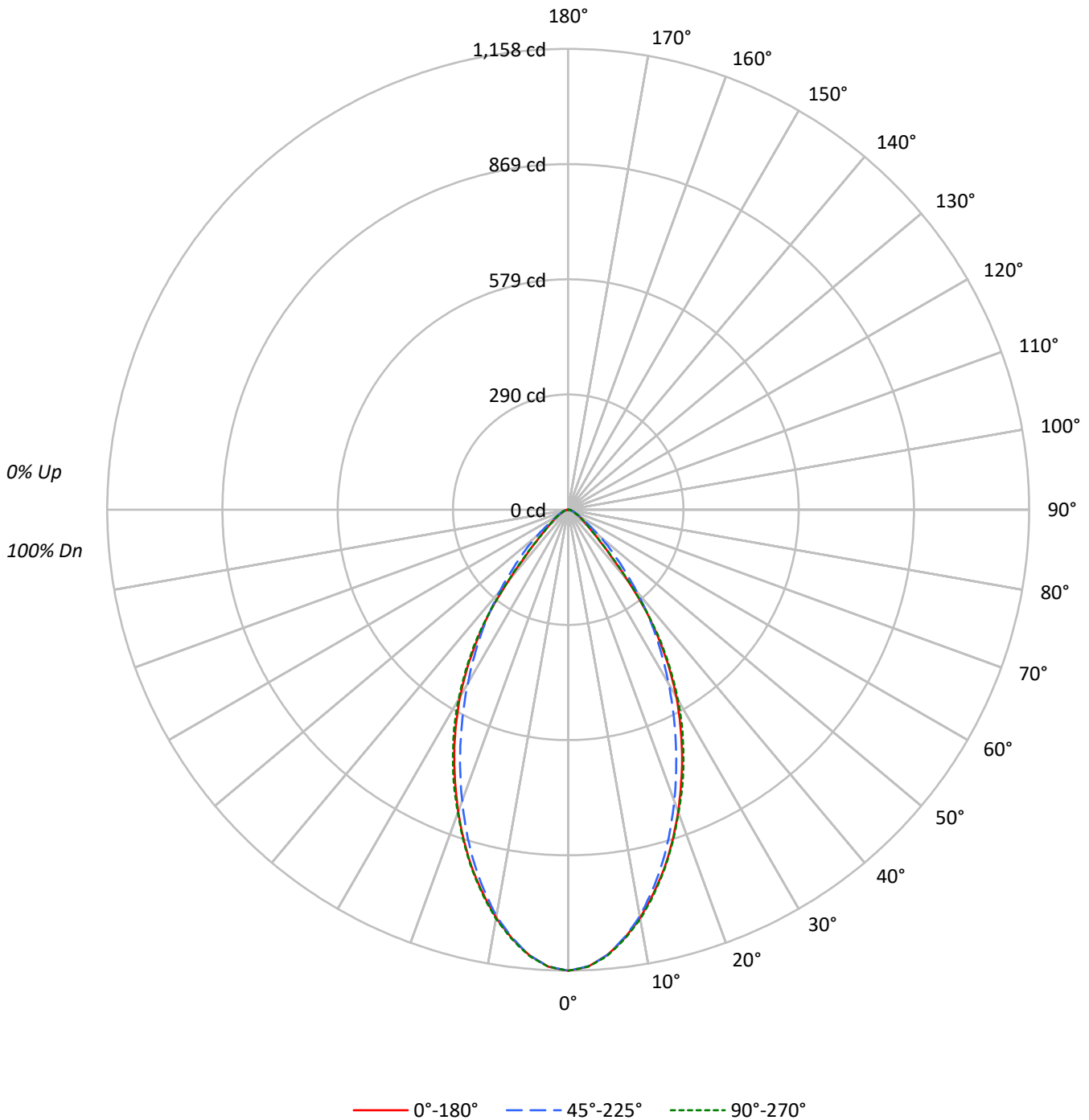
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	96	95	94	92		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	90	88	86	84		
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	83	81	79	77		
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	75	72	71	71		
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	69	67	65	65		
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	65	63	61	59	56		
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60	58	56	54	52		
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56	56	56	54	52	50	49		
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53	52	52	52	50	48	46	45		
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	47	45	43	42		
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	46	46	46	44	42	40	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49876	49876	49876
5°	48562	48562	48644
10°	45512	45337	45644
15°	41570	40861	41659
20°	36994	35670	37127
25°	32167	30371	32547
30°	27041	25062	27434
35°	20904	20068	21377
40°	13079	14979	13354
45°	6899	10412	7021
50°	4327	6792	4394
55°	3213	3956	3280
60°	2394	2738	2394
65°	1824	2129	1824
70°	1624	1750	1624
75°	1481	1481	1481
80°	1240	1240	1240
85°	988	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	9.5
10°-20°	257.6	23.5
20°-30°	301.7	27.5
30°-40°	241.0	22.0
40°-50°	114.6	10.4
50°-60°	45.0	4.1
60°-70°	20.0	1.8
70°-80°	9.6	0.9
80°-90°	2.6	0.2
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°	663.9	60.5
0°-40°	904.9	82.5
0°-60°	1064.5	97.1
0°-90°	1096.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1124	1124	1124	1124	1126	105
15°	933	923	917	925	935	260
25°	677	657	639	661	685	309
35°	398	383	382	388	407	244
45°	113	136	171	138	115	96
55°	43	48	53	49	44	40
65°	18	19	21	19	18	19
75°	9	9	9	9	9	9
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.4	1158.4	1158.4	1158.4	1158.4
2.5°	1149.4	1149.4	1148.4	1149.4	1149.4
5°	1123.6	1123.6	1123.6	1124.5	1125.5
7.5°	1085.8	1085.8	1083.8	1086.8	1087.8
10°	1041.0	1038.0	1037.0	1039.0	1044.0
12.5°	988.3	983.4	978.4	984.4	991.3
15°	932.6	922.7	916.7	924.7	934.6
17.5°	871.0	858.1	849.1	861.1	874.0
20°	807.4	793.4	778.5	795.4	810.3
22.5°	741.7	723.8	708.9	728.8	749.7
25°	677.1	657.2	639.3	661.2	685.1
27.5°	610.5	588.6	570.7	594.6	620.4
30°	543.9	521.0	504.1	529.0	551.8
32.5°	472.3	449.4	441.5	457.4	479.2
35°	397.7	382.8	381.8	387.8	406.7
37.5°	321.2	319.2	322.2	323.1	323.1
40°	232.7	253.5	266.5	258.5	237.6
42.5°	161.1	189.9	213.8	192.9	166.0
45°	113.3	136.2	171.0	138.2	115.3
47.5°	82.5	100.4	135.2	101.4	83.5
50°	64.6	75.6	101.4	74.6	65.6
52.5°	52.7	59.7	72.6	59.7	53.7
55°	42.8	47.7	52.7	48.7	43.7
57.5°	35.8	38.8	39.8	39.8	35.8
60°	27.8	30.8	31.8	30.8	27.8
62.5°	20.9	23.9	25.9	24.9	20.9
65°	17.9	18.9	20.9	18.9	17.9
67.5°	15.9	15.9	16.9	15.9	15.9
70°	12.9	13.9	13.9	13.9	12.9
72.5°	10.9	10.9	10.9	10.9	10.9
75°	8.9	8.9	8.9	8.9	8.9
77.5°	7.0	7.0	7.0	7.0	7.0
80°	5.0	5.0	5.0	6.0	5.0
82.5°	4.0	4.0	4.0	4.0	4.0
85°	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)