

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: P238003

Luminaire Tested: **PRS610D010-S6M12-64SNDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238003
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: PRS610D010-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: 1140.5 lumens
Efficiency: N/A
Efficacy: 114.0 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

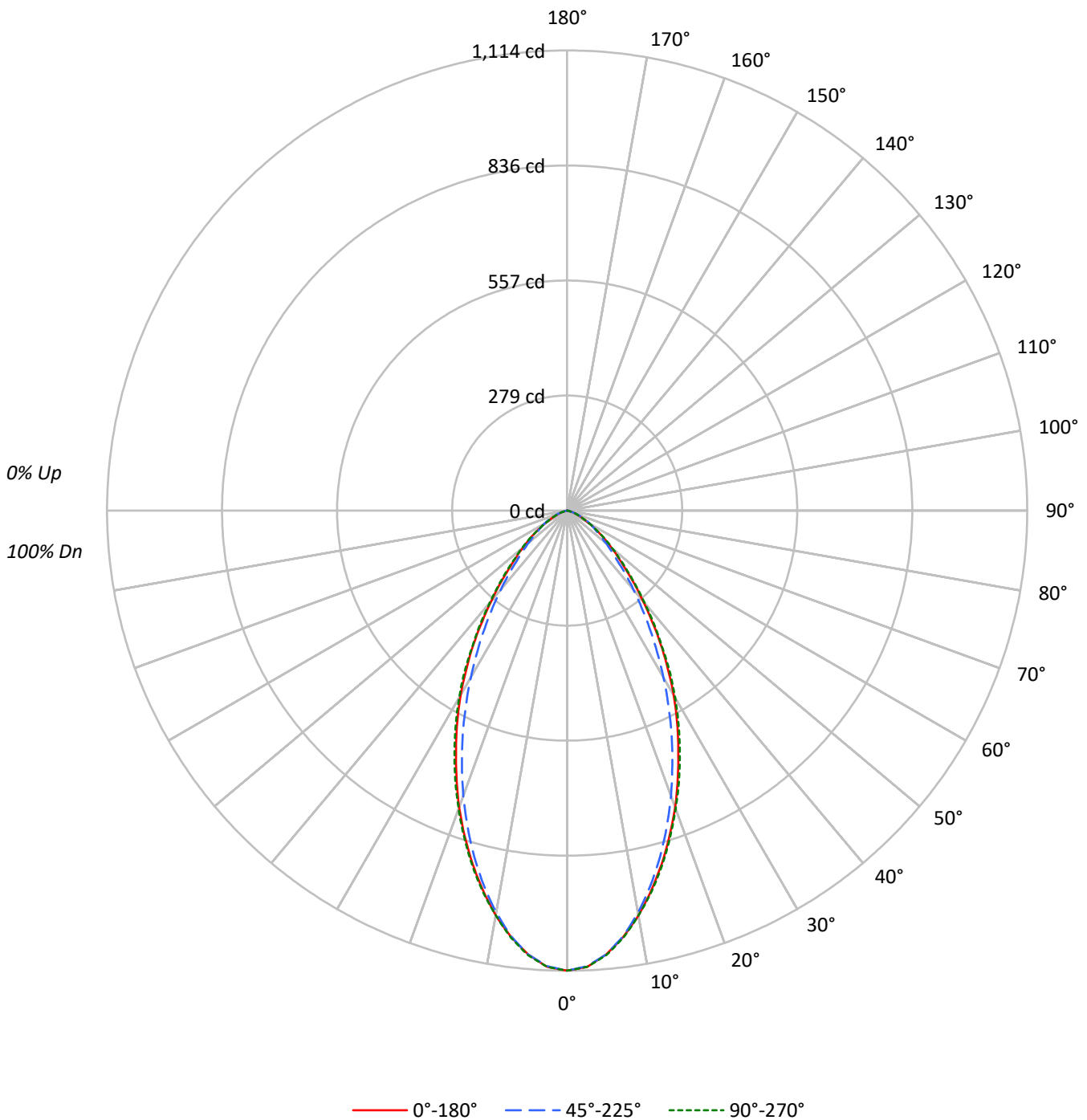
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	77	71	66	85	76	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°	47947	47947	47947
5°	46626	46626	46712
10°	43514	43208	43514
15°	39444	38691	39622
20°	35033	33668	35216
25°	30233	28390	30656
30°	25609	23183	26002
35°	20746	18291	20956
40°	16041	14029	16373
45°	12111	10534	12531
50°	9391	8192	9659
55°	7169	6493	7311
60°	5227	5477	5227
65°	3749	4259	3647
70°	2631	3009	2631
75°	1481	1647	1481
80°	496	496	496
85°	494	494	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	8.8
10°-20°	244.6	21.4
20°-30°	282.7	24.8
30°-40°	231.9	20.3
40°-50°	146.6	12.9
50°-60°	83.2	7.3
60°-70°	39.5	3.5
70°-80°	11.0	1.0
80°-90°	0.8	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°	627.5	55.0
0°-40°	859.4	75.4
0°-60°	1089.1	95.5
0°-90°	1140.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1079	1079	1079	1082	1081	100
15°	885	878	868	880	889	247
25°	636	614	598	618	645	292
35°	395	366	348	372	399	246
45°	199	183	173	186	206	157
55°	96	92	86	94	97	87
65°	37	39	42	39	36	37
75°	9	10	10	10	9	10
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°	1113.6	1113.6	1113.6	1113.6	1113.6
2.5°	1105.7	1104.7	1103.7	1104.7	1105.7
5°	1078.8	1078.8	1078.8	1081.8	1080.8
7.5°	1041.0	1040.1	1039.1	1042.0	1043.0
10°	995.3	991.3	988.3	993.3	995.3
12.5°	941.6	936.6	930.7	937.6	944.6
15°	884.9	878.0	868.0	880.0	888.9
17.5°	825.3	812.4	802.4	815.3	829.3
20°	764.6	748.7	734.8	748.7	768.6
22.5°	700.0	679.1	665.2	683.1	708.0
25°	636.4	613.5	597.6	618.5	645.3
27.5°	575.7	547.9	530.0	553.8	583.7
30°	515.1	485.2	466.3	490.2	523.0
32.5°	453.4	424.6	404.7	430.5	462.4
35°	394.7	365.9	348.0	371.9	398.7
37.5°	337.1	310.2	296.3	315.2	345.0
40°	285.4	261.5	249.6	266.5	291.3
42.5°	240.6	218.7	208.8	222.7	246.6
45°	198.9	183.0	173.0	185.9	205.8
47.5°	167.0	153.1	145.2	156.1	172.0
50°	140.2	129.3	122.3	131.2	144.2
52.5°	117.3	108.4	102.4	110.4	120.3
55°	95.5	91.5	86.5	93.5	97.4
57.5°	75.6	74.6	74.6	75.6	76.6
60°	60.7	60.7	63.6	61.6	60.7
62.5°	46.7	48.7	53.7	48.7	46.7
65°	36.8	38.8	41.8	38.8	35.8
67.5°	27.8	29.8	31.8	29.8	26.8
70°	20.9	22.9	23.9	22.9	20.9
72.5°	14.9	15.9	15.9	15.9	13.9
75°	8.9	9.9	9.9	9.9	8.9
77.5°	3.0	5.0	5.0	5.0	3.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)