

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: P238093

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SNDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1131.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

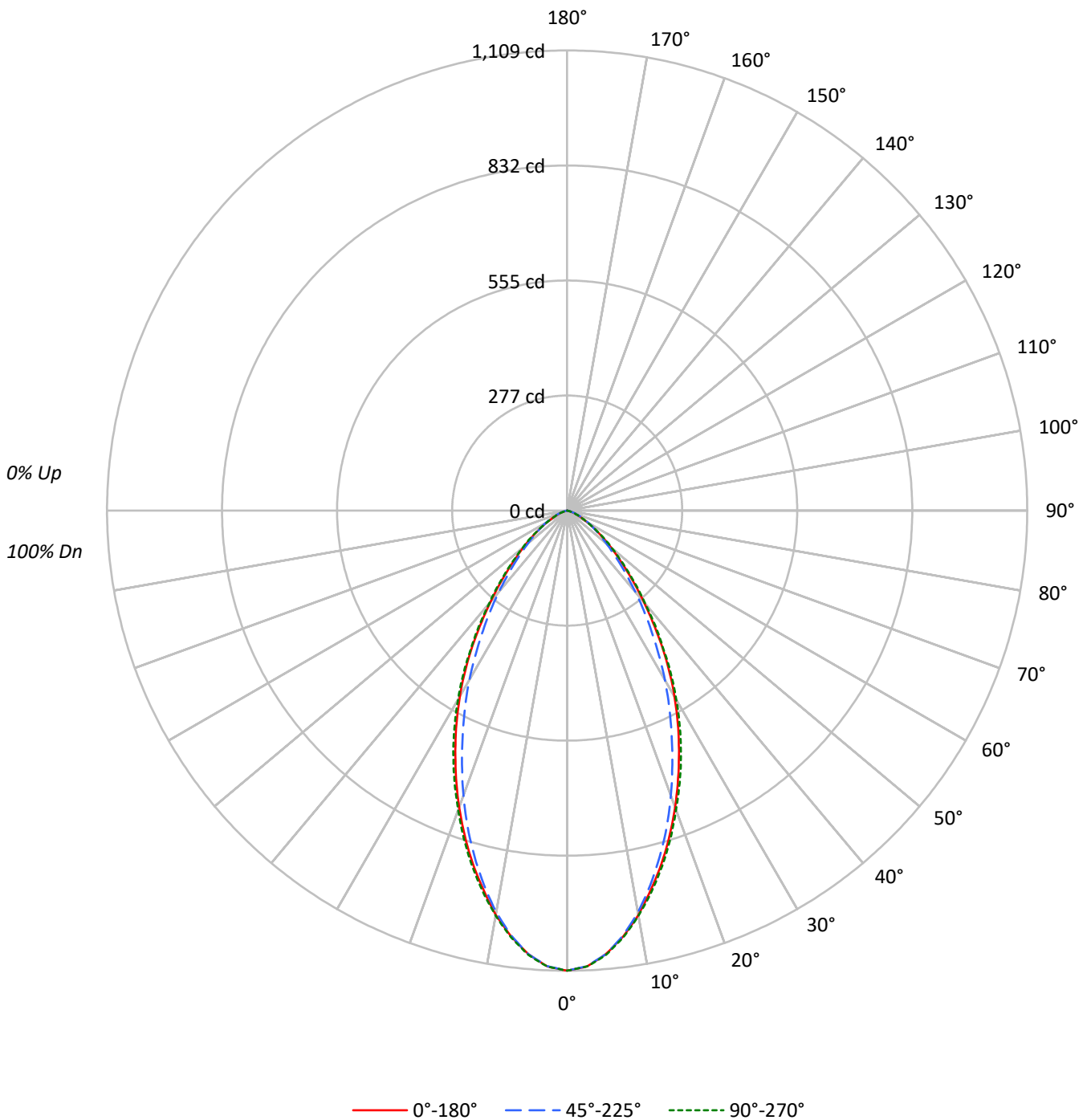
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47736	47736	47736
5°	46371	46371	46457
10°	43256	42994	43344
15°	39226	38472	39493
20°	34854	33484	35171
25°	30281	28295	30846
30°	25708	23431	26151
35°	20904	18607	21166
40°	16153	14360	16429
45°	12172	10838	12592
50°	9190	8259	9525
55°	6643	6418	6868
60°	4710	5141	4796
65°	3240	3749	3240
70°	2127	2505	2127
75°	998	1164	998
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	8.8
10°-20°	243.3	21.5
20°-30°	283.0	25.0
30°-40°	234.1	20.7
40°-50°	147.7	13.1
50°-60°	80.4	7.1
60°-70°	35.3	3.1
70°-80°	8.1	0.7
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°	626.0	55.3
0°-40°	860.1	76.0
0°-60°	1088.1	96.2
0°-90°	1131.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1073	1074	1073	1074	1075	100
15°	880	870	863	875	886	246
25°	637	612	596	620	649	292
35°	398	368	354	374	403	248
45°	200	184	178	187	207	157
55°	88	88	86	90	92	82
65°	32	35	37	35	32	33
75°	6	7	7	8	6	7
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°	1108.7	1108.7	1108.7	1108.7	1108.7
2.5°	1099.7	1098.7	1098.7	1099.7	1099.7
5°	1072.9	1073.9	1072.9	1073.9	1074.9
7.5°	1035.1	1034.1	1033.1	1036.1	1037.1
10°	989.4	986.4	983.4	988.4	991.4
12.5°	934.7	929.7	924.7	932.7	940.6
15°	880.0	870.0	863.1	875.0	886.0
17.5°	821.3	808.4	798.5	812.4	828.3
20°	760.7	743.8	730.8	747.7	767.6
22.5°	699.0	678.1	662.2	684.1	709.0
25°	637.4	612.5	595.6	620.5	649.3
27.5°	577.7	548.9	532.0	555.8	588.6
30°	517.1	487.2	471.3	495.2	526.0
32.5°	457.4	427.6	409.7	433.5	465.3
35°	397.7	367.9	354.0	373.9	402.7
37.5°	338.1	313.2	302.3	319.2	348.0
40°	287.4	264.5	255.5	268.5	292.3
42.5°	240.6	219.7	212.8	225.7	248.6
45°	199.9	184.0	178.0	186.9	206.8
47.5°	165.1	153.1	148.2	157.1	171.0
50°	137.2	128.3	123.3	130.3	142.2
52.5°	112.4	106.4	102.4	108.4	116.3
55°	88.5	87.5	85.5	89.5	91.5
57.5°	70.6	70.6	71.6	71.6	71.6
60°	54.7	56.7	59.7	57.7	55.7
62.5°	41.8	44.7	47.7	44.7	42.8
65°	31.8	34.8	36.8	34.8	31.8
67.5°	23.9	25.9	27.8	25.9	23.9
70°	16.9	18.9	19.9	18.9	16.9
72.5°	10.9	12.9	12.9	12.9	10.9
75°	6.0	7.0	7.0	8.0	6.0
77.5°	1.0	2.0	3.0	3.0	1.0
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)