

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: P238138

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SNDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 958.5 lumens
Efficiency: N/A
Efficacy: 95.9 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

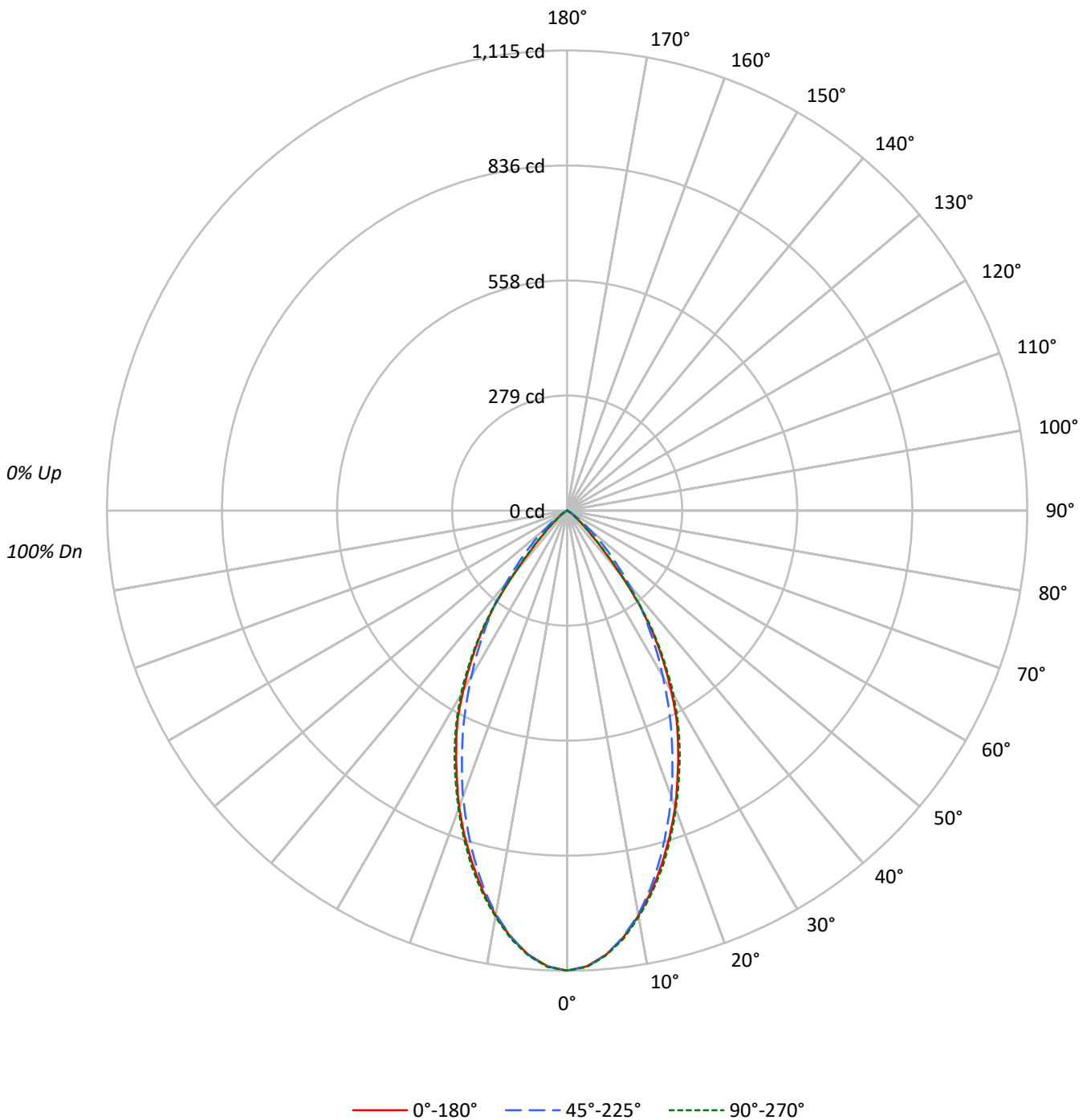
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52					52			
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47990	47990	47990
5°	46669	46712	46756
10°	43558	43427	43689
15°	39489	38824	39801
20°	35033	33805	35262
25°	30228	28437	30656
30°	25012	23034	25604
35°	19074	18029	19442
40°	11067	12967	11398
45°	4902	8476	5023
50°	2331	4729	2331
55°	1269	1944	1269
60°	431	766	431
65°	0	204	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	10.5
10°-20°	245.2	25.6
20°-30°	282.7	29.5
30°-40°	218.0	22.7
40°-50°	89.4	9.3
50°-60°	21.1	2.2
60°-70°	1.8	0.2
70°-80°	0.0	0.0
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°	628.3	65.5
0°-40°	846.3	88.3
0°-60°	956.8	99.8
0°-90°	958.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1080	1080	1081	1082	1082	100
15°	886	879	871	880	893	247
25°	636	614	599	620	645	291
35°	363	345	343	353	370	221
45°	80	104	139	107	82	71
55°	17	22	26	22	17	16
65°	0	0	2	0	0	1
75°	0	0	0	0	0	0
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°	1114.6	1114.6	1114.6	1114.6	1114.6
2.5°	1104.7	1105.7	1105.7	1106.6	1106.6
5°	1079.8	1079.8	1080.8	1081.8	1081.8
7.5°	1043.0	1042.0	1041.0	1043.0	1046.0
10°	996.3	993.3	993.3	995.3	999.3
12.5°	943.6	938.6	935.6	939.6	948.6
15°	885.9	879.0	871.0	879.9	892.9
17.5°	826.3	816.3	804.4	817.3	832.2
20°	764.6	748.7	737.8	751.7	769.6
22.5°	699.0	682.1	666.2	687.1	706.9
25°	636.3	614.5	598.6	620.4	645.3
27.5°	575.7	546.9	530.0	553.8	581.7
30°	503.1	482.2	463.3	488.2	515.0
32.5°	433.5	411.6	402.7	418.6	442.5
35°	362.9	345.0	343.0	353.0	369.9
37.5°	284.4	283.4	289.3	287.4	290.3
40°	196.9	220.7	230.7	222.7	202.8
42.5°	127.3	155.1	180.0	159.1	134.2
45°	80.5	104.4	139.2	107.4	82.5
47.5°	50.7	67.6	104.4	69.6	51.7
50°	34.8	44.7	70.6	44.7	34.8
52.5°	23.9	30.8	43.7	30.8	24.9
55°	16.9	21.9	25.9	21.9	16.9
57.5°	9.9	13.9	14.9	13.9	10.9
60°	5.0	8.0	8.9	8.0	5.0
62.5°	0.0	3.0	5.0	3.0	0.0
65°	0.0	0.0	2.0	0.0	0.0
67.5°	0.0	0.0	1.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
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)