

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: P238223

Luminaire Tested: **PRS610D010-S6M12-61SNDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SNDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1086.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

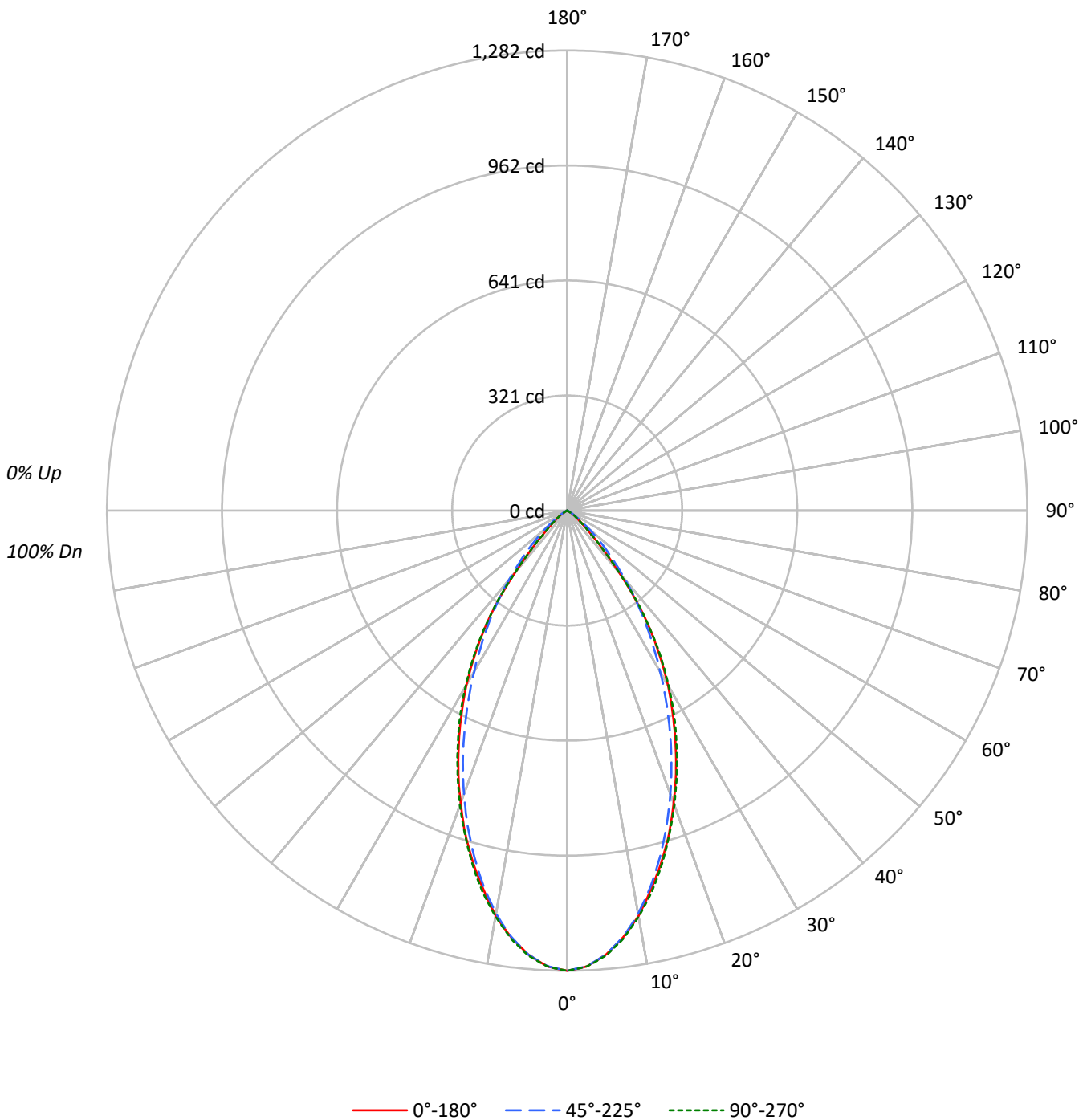
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	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	68	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	57	53	52					52			
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	55210	55210	55210
5°	53649	53649	53779
10°	50116	49854	50204
15°	45207	44539	45475
20°	39734	38497	40009
25°	33929	32172	34262
30°	27946	25758	28144
35°	21082	19873	21187
40°	12652	14169	12652
45°	5967	9255	5967
50°	3081	5292	3014
55°	1727	2327	1727
60°	689	1033	689
65°	204	408	204
70°	126	126	126
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	10.6
10°-20°	280.6	25.8
20°-30°	318.3	29.3
30°-40°	240.7	22.2
40°-50°	101.0	9.3
50°-60°	26.2	2.4
60°-70°	3.4	0.3
70°-80°	0.4	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°	714.3	65.8
0°-40°	955.0	87.9
0°-60°	1082.2	99.7
0°-90°	1086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1241	1242	1241	1243	1244	115
15°	1014	1007	999	1009	1020	283
25°	714	694	677	698	721	326
35°	401	384	378	387	403	246
45°	98	120	152	120	98	85
55°	23	27	31	27	23	22
65°	2	1	4	1	2	2
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°	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1271.3	1270.3	1270.3	1271.3	1271.3
5°	1241.3	1242.3	1241.3	1243.3	1244.3
7.5°	1198.3	1198.3	1197.3	1199.3	1202.3
10°	1146.3	1142.3	1140.3	1144.3	1148.3
12.5°	1080.3	1077.3	1073.3	1080.3	1088.3
15°	1014.2	1007.2	999.2	1009.2	1020.2
17.5°	944.2	930.2	921.2	934.2	946.2
20°	867.2	853.2	840.2	854.2	873.2
22.5°	792.2	772.2	759.2	775.2	797.2
25°	714.2	694.2	677.2	698.2	721.2
27.5°	636.1	615.1	596.1	619.1	646.2
30°	562.1	536.1	518.1	542.1	566.1
32.5°	480.1	456.1	446.1	463.1	488.1
35°	401.1	384.1	378.1	387.1	403.1
37.5°	315.1	311.1	313.1	317.1	320.1
40°	225.1	244.1	252.1	245.1	225.1
42.5°	150.0	176.0	197.0	176.0	152.0
45°	98.0	120.0	152.0	120.0	98.0
47.5°	64.0	81.0	113.0	80.0	64.0
50°	46.0	54.0	79.0	54.0	45.0
52.5°	33.0	38.0	51.0	38.0	33.0
55°	23.0	27.0	31.0	27.0	23.0
57.5°	15.0	18.0	18.0	18.0	15.0
60°	8.0	11.0	12.0	11.0	8.0
62.5°	2.0	5.0	7.0	5.0	2.0
65°	2.0	1.0	4.0	1.0	2.0
67.5°	1.0	1.0	2.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
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)