

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: P238228

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238228
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1079.8 lumens
Efficiency: N/A
Efficacy: 108.0 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

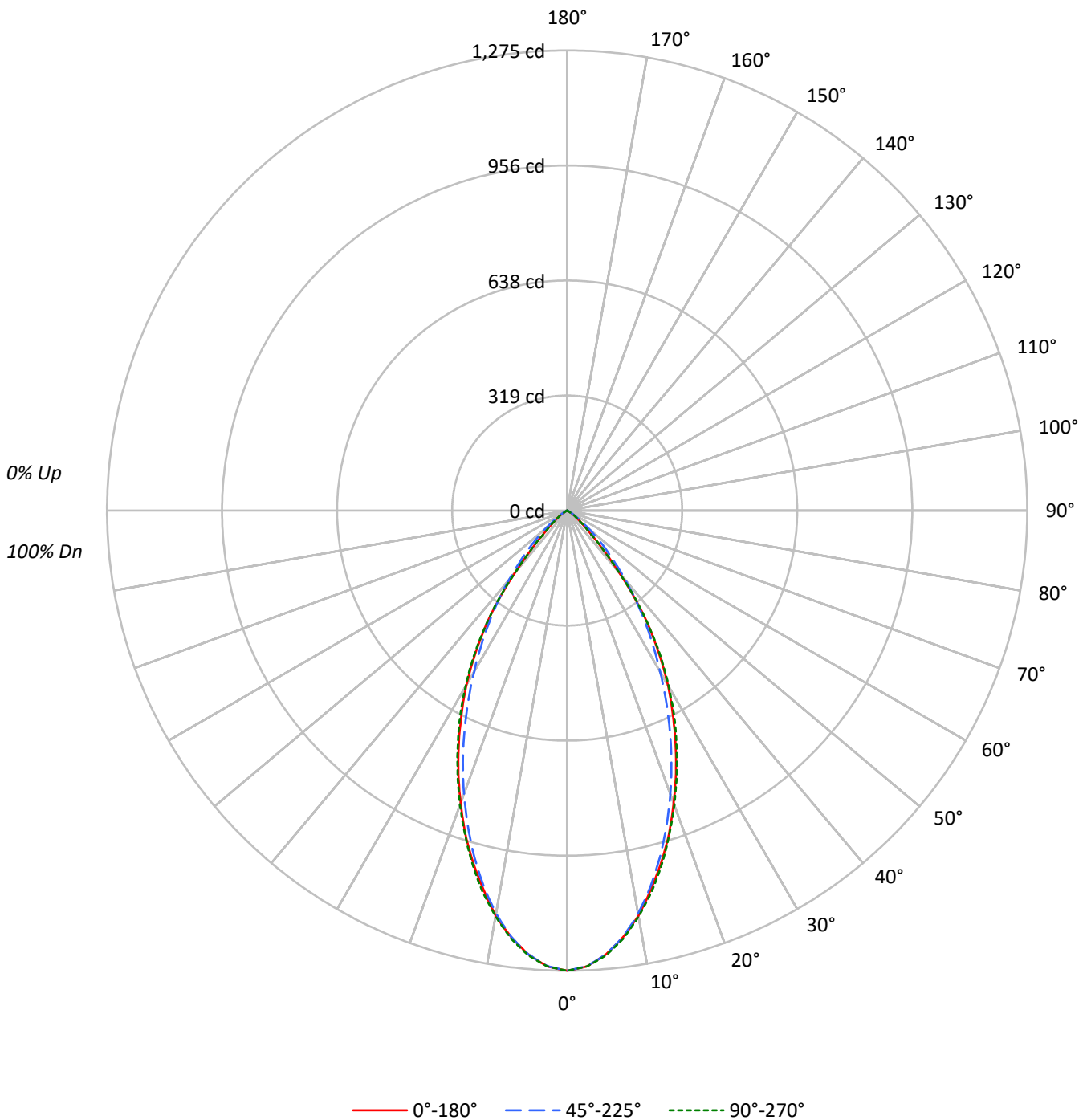
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	54896	54896	54896
5°	53342	53342	53472
10°	49828	49570	49915
15°	44953	44285	45216
20°	39510	38277	39780
25°	33734	31986	34067
30°	27786	25614	27985
35°	20961	19758	21067
40°	12579	14085	12579
45°	5937	9207	5937
50°	3061	5265	3001
55°	1719	2312	1719
60°	689	1025	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°	114.8	10.6
10°-20°	279.0	25.8
20°-30°	316.5	29.3
30°-40°	239.3	22.2
40°-50°	100.5	9.3
50°-60°	26.0	2.4
60°-70°	3.3	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°	710.2	65.8
0°-40°	949.6	87.9
0°-60°	1076.1	99.7
0°-90°	1079.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1234	1235	1234	1236	1237	115
15°	1008	1002	994	1004	1014	281
25°	710	690	673	694	717	325
35°	399	382	376	385	401	244
45°	98	119	151	119	98	84
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°	1275.0	1275.0	1275.0	1275.0	1275.0
2.5°	1264.1	1263.1	1263.1	1264.1	1264.1
5°	1234.2	1235.2	1234.2	1236.2	1237.2
7.5°	1191.5	1191.5	1190.5	1192.5	1195.4
10°	1139.7	1135.8	1133.8	1137.8	1141.7
12.5°	1074.1	1071.1	1067.1	1074.1	1082.1
15°	1008.5	1001.5	993.5	1003.5	1014.4
17.5°	938.8	924.9	916.0	928.9	940.8
20°	862.3	848.3	835.4	849.3	868.2
22.5°	787.7	767.8	754.9	770.8	792.7
25°	710.1	690.2	673.3	694.2	717.1
27.5°	632.5	611.6	592.7	615.6	642.5
30°	558.9	533.1	515.2	539.0	562.9
32.5°	477.4	453.5	443.6	460.5	485.3
35°	398.8	381.9	375.9	384.9	400.8
37.5°	313.3	309.3	311.3	315.3	318.3
40°	223.8	242.7	250.6	243.7	223.8
42.5°	149.2	175.0	195.9	175.0	151.2
45°	97.5	119.3	151.2	119.3	97.5
47.5°	63.7	80.6	112.4	79.6	63.7
50°	45.7	53.7	78.6	53.7	44.8
52.5°	32.8	37.8	50.7	37.8	32.8
55°	22.9	26.9	30.8	26.9	22.9
57.5°	14.9	17.9	17.9	17.9	14.9
60°	8.0	10.9	11.9	10.9	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)