

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: P238288

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SMDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1060.9 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

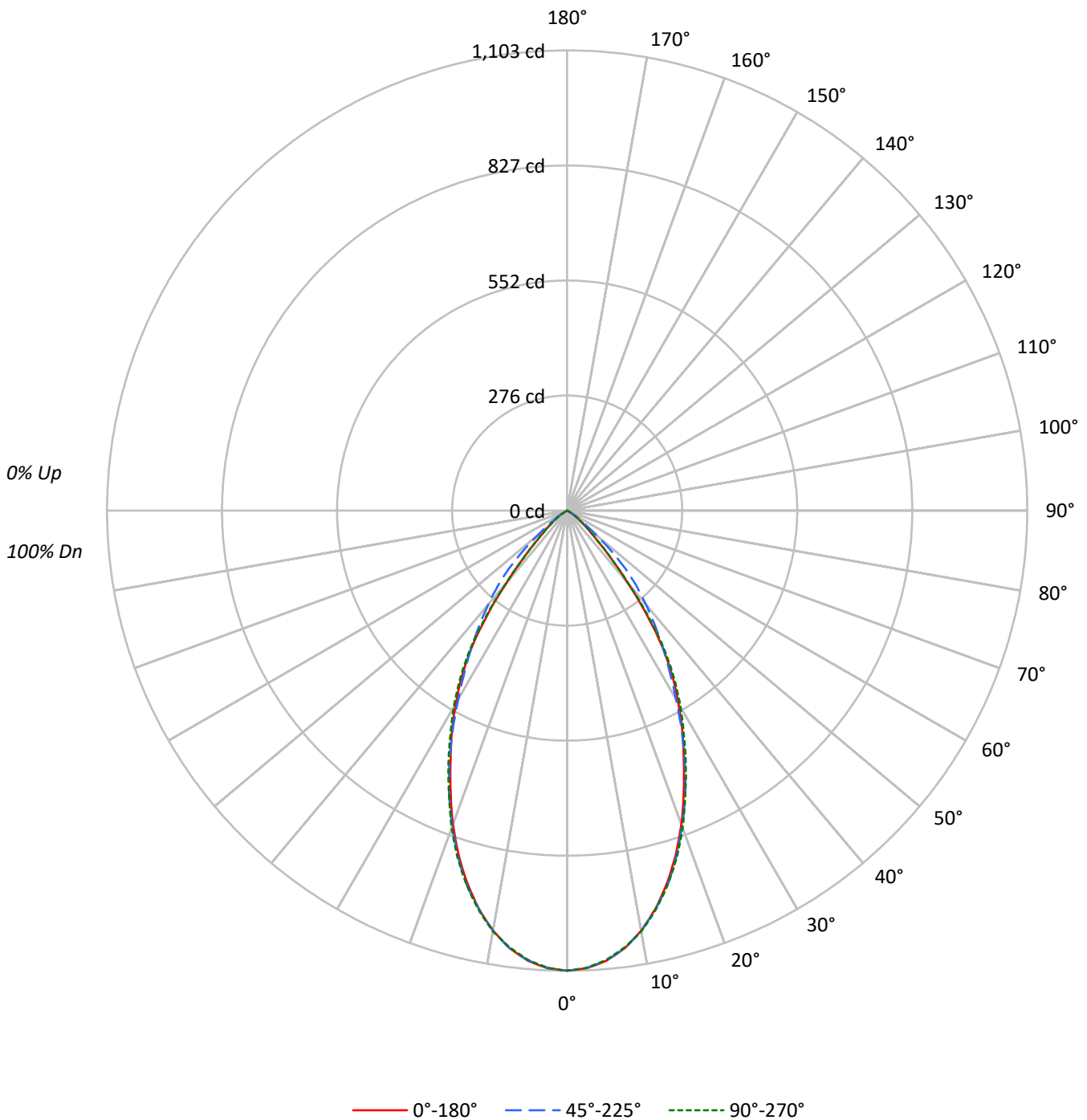
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62					62			
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58					58			
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54					54			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47482	47482	47482
5°	46803	46760	46717
10°	44690	44734	44778
15°	41222	41441	41441
20°	36678	36861	37086
25°	31416	31696	31981
30°	26499	25907	27041
35°	20856	20956	21324
40°	12686	16485	12910
45°	6418	12111	6540
50°	3530	6129	3530
55°	1944	2537	2012
60°	517	1111	517
65°	0	408	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°	101.4	9.6
10°-20°	258.5	24.4
20°-30°	305.2	28.8
30°-40°	249.2	23.5
40°-50°	114.4	10.8
50°-60°	29.7	2.8
60°-70°	2.5	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°	665.2	62.7
0°-40°	914.3	86.2
0°-60°	1058.4	99.8
0°-90°	1060.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1083	1083	1082	1082	1081	101
15°	925	927	930	931	930	257
25°	661	660	667	671	673	304
35°	397	408	399	414	406	241
45°	105	130	199	131	107	90
55°	26	32	34	32	27	24
65°	0	0	4	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°	1102.8	1102.8	1102.8	1102.8	1102.8
2.5°	1097.8	1097.8	1096.8	1096.8	1096.8
5°	1082.9	1082.9	1081.9	1081.9	1080.9
7.5°	1058.0	1058.0	1058.0	1057.0	1056.0
10°	1022.2	1022.2	1023.2	1023.2	1024.2
12.5°	977.5	978.5	978.5	980.5	980.5
15°	924.8	926.8	929.7	930.7	929.7
17.5°	865.1	867.1	870.1	874.1	873.1
20°	800.5	801.5	804.5	810.4	809.4
22.5°	729.9	731.9	739.8	741.8	739.8
25°	661.3	660.3	667.2	671.2	673.2
27.5°	598.6	593.6	594.6	600.6	606.6
30°	533.0	531.0	521.1	537.0	543.9
32.5°	468.4	469.3	456.4	473.3	477.3
35°	396.8	407.7	398.7	413.7	405.7
37.5°	311.2	341.1	344.1	346.0	319.2
40°	225.7	264.5	293.3	266.5	229.7
42.5°	157.1	188.9	247.6	192.9	156.1
45°	105.4	130.3	198.9	131.3	107.4
47.5°	73.6	87.5	144.2	88.5	73.6
50°	52.7	60.7	91.5	61.7	52.7
52.5°	38.8	43.8	55.7	43.8	38.8
55°	25.9	31.8	33.8	31.8	26.8
57.5°	15.9	20.9	21.9	20.9	14.9
60°	6.0	10.9	12.9	10.9	6.0
62.5°	1.0	3.0	8.0	4.0	1.0
65°	0.0	0.0	4.0	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)