

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: P253043

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SWDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW 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: 958.3 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

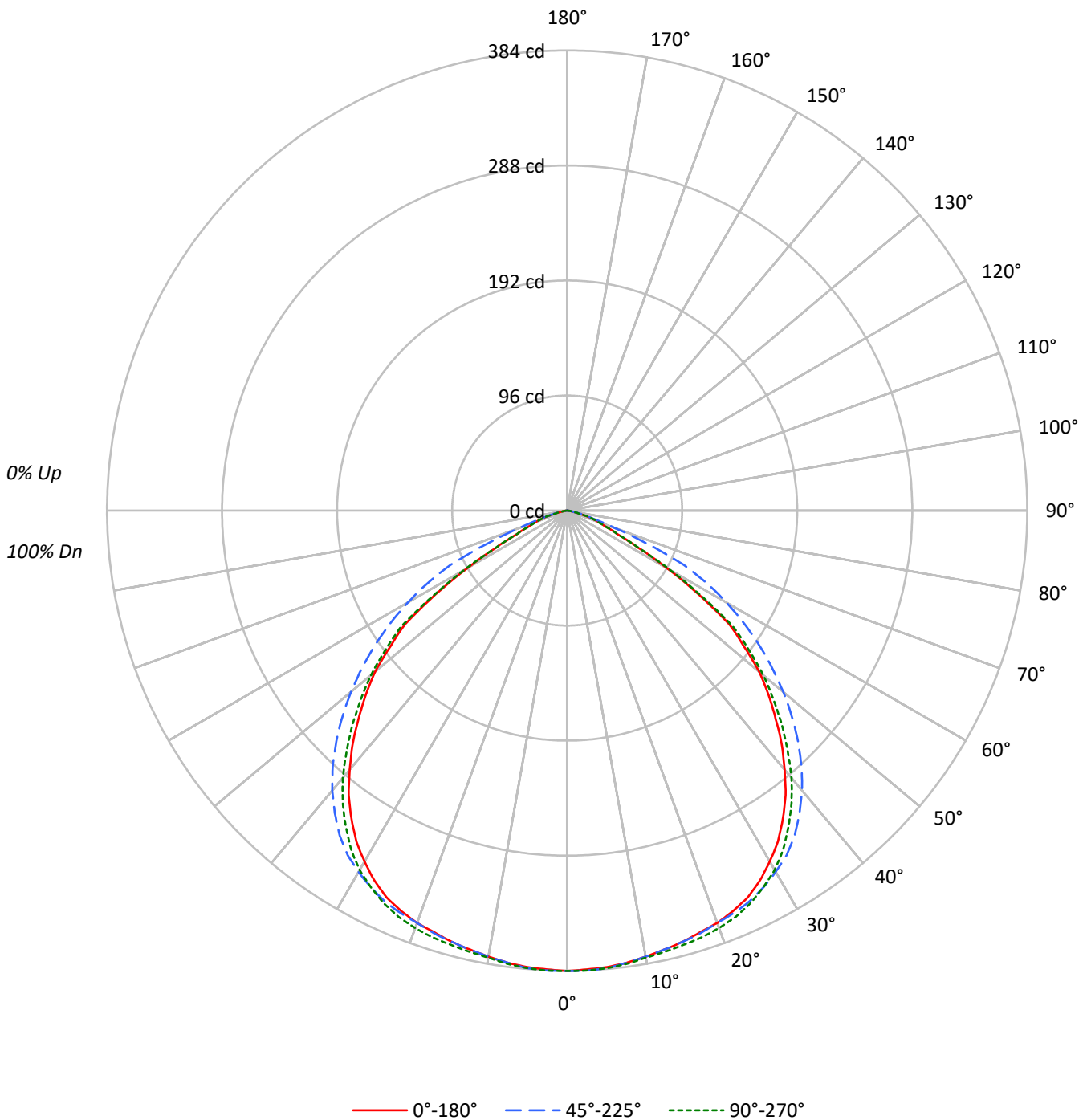
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16542	16542	16542
5°	16527	16566	16566
10°	16522	16522	16561
15°	16604	16604	16724
20°	16779	16779	16985
25°	16927	17098	17183
30°	16814	17311	17222
35°	16499	17398	16925
40°	15867	17137	16373
45°	14991	16586	15436
50°	14019	15768	14321
55°	12393	14690	12731
60°	8310	13201	8542
65°	4686	10932	4686
70°	3525	5338	3412
75°	2096	2396	2246
80°	893	1116	893
85°	445	445	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	3.8
10°-20°	105.6	11.0
20°-30°	165.4	17.3
30°-40°	202.1	21.1
40°-50°	200.9	21.0
50°-60°	158.6	16.6
60°-70°	71.0	7.4
70°-80°	16.5	1.7
80°-90°	1.7	0.2
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°	307.4	32.1
0°-40°	509.5	53.2
0°-60°	869.0	90.7
0°-90°	958.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	382	382	383	383	383	36
15°	372	372	372	373	375	105
25°	356	357	360	361	362	164
35°	314	320	331	326	322	196
45°	246	258	272	264	254	190
55°	165	178	196	181	170	141
65°	46	60	107	61	46	51
75°	13	15	14	15	14	14
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	384.2	384.2	384.2	384.2	384.2
2.5°	383.3	384.2	384.2	384.2	384.2
5°	382.4	382.4	383.3	383.3	383.3
7.5°	380.6	380.6	380.6	381.5	381.5
10°	377.9	377.9	377.9	378.8	378.8
12.5°	375.2	375.2	375.2	376.1	377.0
15°	372.5	371.6	372.5	373.4	375.2
17.5°	368.9	369.8	369.8	371.6	373.4
20°	366.2	366.2	366.2	368.9	370.7
22.5°	361.7	361.7	363.5	365.3	367.1
25°	356.3	357.2	359.9	360.8	361.7
27.5°	348.2	350.9	354.5	355.4	354.5
30°	338.2	341.8	348.2	347.3	346.4
32.5°	327.4	331.9	340.9	338.2	335.5
35°	313.9	320.2	331.0	326.5	322.0
37.5°	299.5	307.6	318.4	313.9	307.6
40°	282.3	292.2	304.9	298.6	291.3
42.5°	265.2	276.0	289.5	281.4	272.4
45°	246.2	258.0	272.4	264.3	253.5
47.5°	228.2	239.9	254.4	244.4	233.6
50°	209.3	220.1	235.4	224.6	213.8
52.5°	185.8	200.2	215.6	203.8	191.2
55°	165.1	177.7	195.7	181.3	169.6
57.5°	129.9	155.1	175.0	157.8	133.5
60°	96.5	120.9	153.3	124.5	99.2
62.5°	66.7	89.3	131.7	90.2	67.6
65°	46.0	60.4	107.3	61.3	46.0
67.5°	34.3	40.6	72.2	40.6	34.3
70°	28.0	29.8	42.4	29.8	27.1
72.5°	20.7	23.5	23.5	23.5	21.6
75°	12.6	15.3	14.4	15.3	13.5
77.5°	5.4	7.2	9.0	8.1	5.4
80°	3.6	3.6	4.5	3.6	3.6
82.5°	2.7	2.7	2.7	2.7	2.7
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)