

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: P253023

Luminaire Tested: **PRS610D010-S6M12-64SWDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253023
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-S6M12-64SWDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1062.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

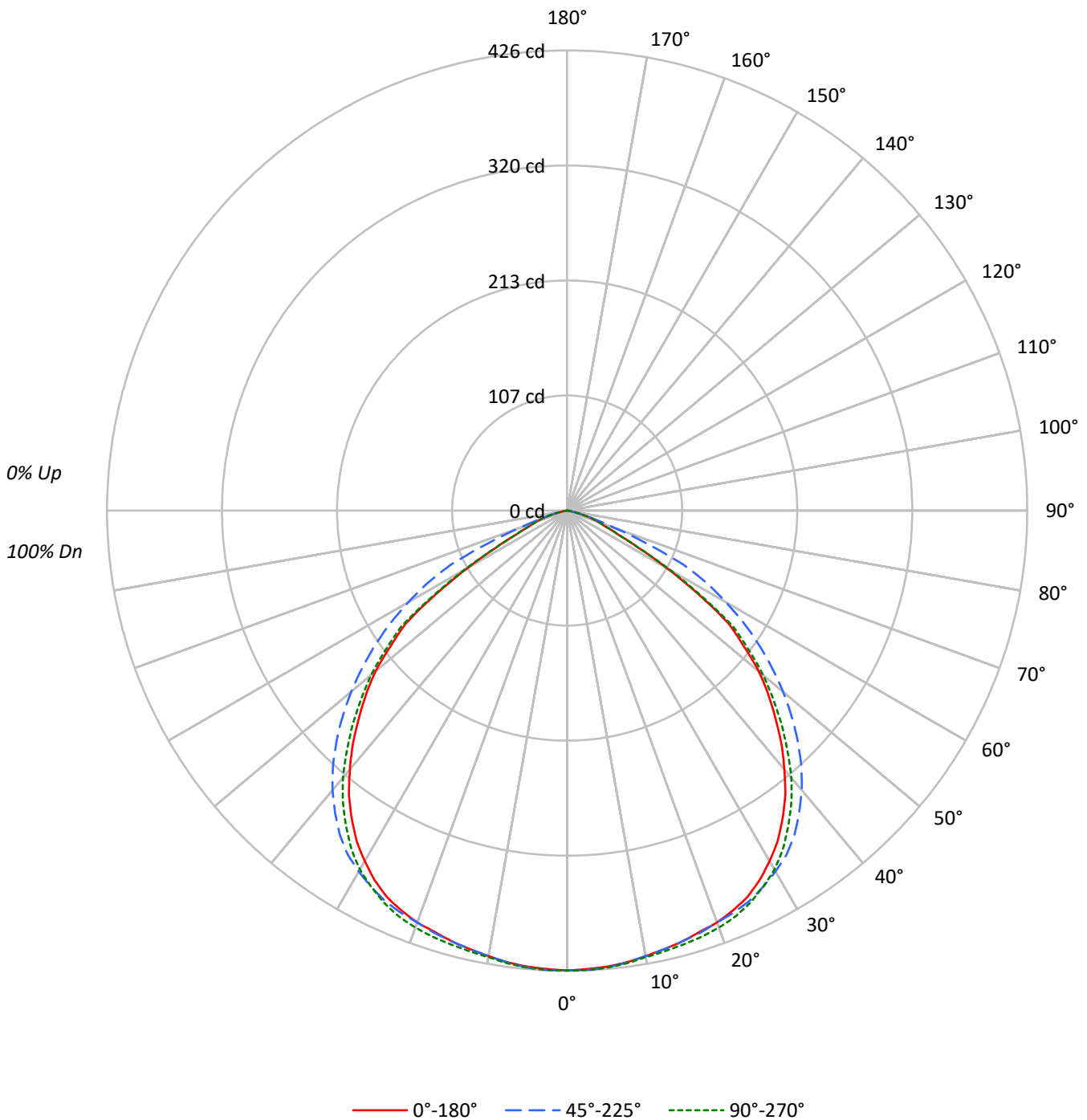
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18333	18333	18333
5°	18317	18360	18360
10°	18310	18310	18354
15°	18400	18400	18534
20°	18593	18593	18822
25°	18756	18946	19041
30°	18634	19181	19081
35°	18281	19279	18754
40°	17587	18992	18149
45°	16617	18383	17104
50°	15533	17476	15868
55°	13729	16282	14105
60°	9214	14630	9472
65°	5196	12113	5196
70°	3902	5917	3777
75°	2329	2662	2495
80°	992	1240	992
85°	494	494	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	3.8
10°-20°	117.0	11.0
20°-30°	183.3	17.3
30°-40°	223.9	21.1
40°-50°	222.7	21.0
50°-60°	175.8	16.6
60°-70°	78.7	7.4
70°-80°	18.3	1.7
80°-90°	1.9	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°	340.6	32.1
0°-40°	564.6	53.2
0°-60°	963.1	90.7
0°-90°	1062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	424	424	425	425	425	40
15°	413	412	413	414	416	117
25°	395	396	399	400	401	181
35°	348	355	367	362	357	217
45°	273	286	302	293	281	211
55°	183	197	217	201	188	156
65°	51	67	119	68	51	57
75°	14	17	16	17	15	16
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°	425.8	425.8	425.8	425.8	425.8
2.5°	424.8	425.8	425.8	425.8	425.8
5°	423.8	423.8	424.8	424.8	424.8
7.5°	421.8	421.8	421.8	422.8	422.8
10°	418.8	418.8	418.8	419.8	419.8
12.5°	415.8	415.8	415.8	416.8	417.8
15°	412.8	411.8	412.8	413.8	415.8
17.5°	408.8	409.8	409.8	411.8	413.8
20°	405.8	405.8	405.8	408.8	410.8
22.5°	400.8	400.8	402.8	404.8	406.8
25°	394.8	395.8	398.8	399.8	400.8
27.5°	385.8	388.8	392.8	393.8	392.8
30°	374.8	378.8	385.8	384.8	383.8
32.5°	362.8	367.8	377.8	374.8	371.8
35°	347.8	354.8	366.8	361.8	356.8
37.5°	331.9	340.9	352.8	347.8	340.9
40°	312.9	323.9	337.9	330.9	322.9
42.5°	293.9	305.9	320.9	311.9	301.9
45°	272.9	285.9	301.9	292.9	280.9
47.5°	252.9	265.9	281.9	270.9	258.9
50°	231.9	243.9	260.9	248.9	236.9
52.5°	205.9	221.9	238.9	225.9	211.9
55°	182.9	196.9	216.9	200.9	187.9
57.5°	143.9	171.9	193.9	174.9	147.9
60°	107.0	133.9	169.9	137.9	110.0
62.5°	74.0	99.0	145.9	100.0	75.0
65°	51.0	67.0	118.9	68.0	51.0
67.5°	38.0	45.0	80.0	45.0	38.0
70°	31.0	33.0	47.0	33.0	30.0
72.5°	23.0	26.0	26.0	26.0	24.0
75°	14.0	17.0	16.0	17.0	15.0
77.5°	6.0	8.0	10.0	9.0	6.0
80°	4.0	4.0	5.0	4.0	4.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)