

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: P253018

Luminaire Tested: **PRS610D010-S6M12-64SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253018
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1016.7 lumens
Efficiency: N/A
Efficacy: 101.7 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

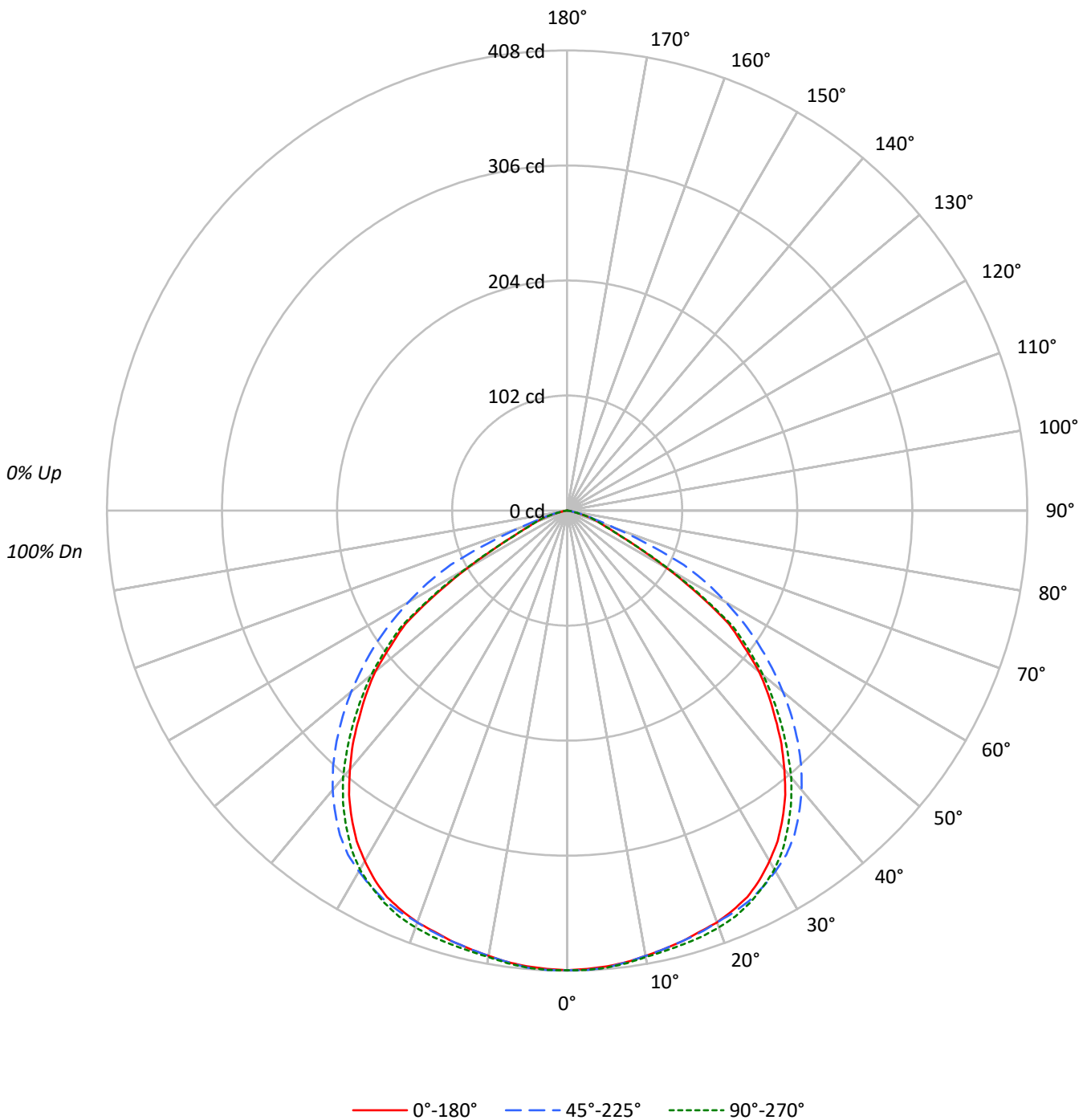
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17549	17549	17549
5°	17534	17578	17578
10°	17527	17527	17571
15°	17616	17616	17745
20°	17801	17801	18021
25°	17958	18138	18228
30°	17838	18365	18271
35°	17503	18460	17955
40°	16833	18177	17373
45°	15904	17597	16373
50°	14870	16732	15192
55°	13144	15584	13504
60°	8818	14010	9068
65°	4972	11604	4972
70°	3739	5665	3613
75°	2229	2545	2396
80°	942	1190	942
85°	494	494	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	3.8
10°-20°	112.0	11.0
20°-30°	175.5	17.3
30°-40°	214.4	21.1
40°-50°	213.2	21.0
50°-60°	168.3	16.6
60°-70°	75.3	7.4
70°-80°	17.6	1.7
80°-90°	1.8	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°	326.1	32.1
0°-40°	540.5	53.2
0°-60°	922.0	90.7
0°-90°	1016.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1016.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	406	406	407	407	407	39
15°	395	394	395	396	398	112
25°	378	379	382	383	384	174
35°	333	340	351	346	342	208
45°	261	274	289	280	269	202
55°	175	188	208	192	180	150
65°	49	64	114	65	49	55
75°	13	16	15	16	14	15
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°	407.6	407.6	407.6	407.6	407.6
2.5°	406.7	407.6	407.6	407.6	407.6
5°	405.7	405.7	406.7	406.7	406.7
7.5°	403.8	403.8	403.8	404.8	404.8
10°	400.9	400.9	400.9	401.9	401.9
12.5°	398.1	398.1	398.1	399.0	400.0
15°	395.2	394.2	395.2	396.2	398.1
17.5°	391.4	392.3	392.3	394.2	396.2
20°	388.5	388.5	388.5	391.4	393.3
22.5°	383.7	383.7	385.6	387.5	389.5
25°	378.0	378.9	381.8	382.8	383.7
27.5°	369.4	372.2	376.1	377.0	376.1
30°	358.8	362.7	369.4	368.4	367.5
32.5°	347.4	352.1	361.7	358.8	356.0
35°	333.0	339.7	351.2	346.4	341.6
37.5°	317.7	326.3	337.8	333.0	326.3
40°	299.5	310.0	323.4	316.7	309.1
42.5°	281.3	292.8	307.2	298.6	289.0
45°	261.2	273.7	289.0	280.4	268.9
47.5°	242.1	254.5	269.8	259.3	247.8
50°	222.0	233.5	249.8	238.3	226.8
52.5°	197.1	212.4	228.7	216.3	202.9
55°	175.1	188.5	207.6	192.3	179.9
57.5°	137.8	164.6	185.6	167.5	141.6
60°	102.4	128.2	162.7	132.1	105.3
62.5°	70.8	94.7	139.7	95.7	71.8
65°	48.8	64.1	113.9	65.1	48.8
67.5°	36.4	43.1	76.6	43.1	36.4
70°	29.7	31.6	45.0	31.6	28.7
72.5°	22.0	24.9	24.9	24.9	23.0
75°	13.4	16.3	15.3	16.3	14.4
77.5°	5.7	7.7	9.6	8.6	5.7
80°	3.8	3.8	4.8	3.8	3.8
82.5°	2.9	2.9	2.9	2.9	2.9
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)