

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: P252998

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252998
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-S6M12-64SWDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1035.8 lumens
Efficiency: N/A
Efficacy: 103.6 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

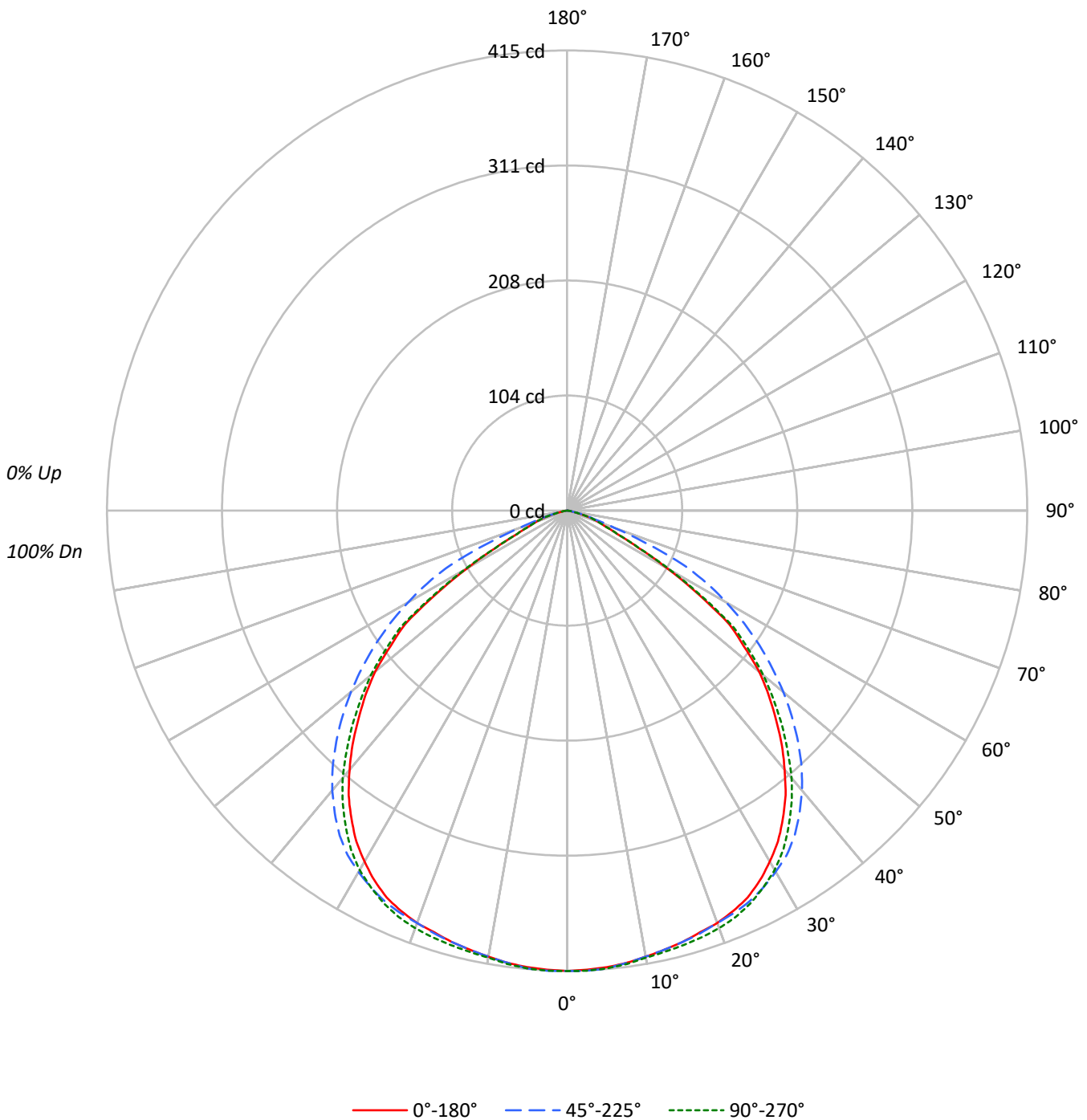
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88	88	88	88	88		
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76	76	76	76	76	76	76		
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65	65	65	65	65	65	65		
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	57	57	57	57		
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50		
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44	44	44	44	44	44	44		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39	39	39	39	39	39	39		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35	35	35	35	35	35	35		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31	31	31	31		
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28	28	28	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17881	17881	17881
5°	17867	17910	17910
10°	17860	17860	17903
15°	17950	17950	18079
20°	18135	18135	18360
25°	18295	18480	18575
30°	18176	18708	18614
35°	17834	18806	18297
40°	17154	18520	17699
45°	16209	17926	16684
50°	15151	17047	15480
55°	13392	15884	13759
60°	8981	14269	9231
65°	5063	11818	5063
70°	3802	5766	3676
75°	2262	2595	2429
80°	967	1215	967
85°	494	494	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	3.8
10°-20°	114.1	11.0
20°-30°	178.8	17.3
30°-40°	218.5	21.1
40°-50°	217.2	21.0
50°-60°	171.5	16.6
60°-70°	76.7	7.4
70°-80°	17.9	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°	332.3	32.1
0°-40°	550.7	53.2
0°-60°	939.4	90.7
0°-90°	1035.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	413	413	414	414	414	39
15°	403	402	403	404	406	114
25°	385	386	389	390	391	177
35°	339	346	358	353	348	212
45°	266	279	294	286	274	205
55°	178	192	212	196	183	153
65°	50	65	116	66	50	56
75°	14	17	16	17	15	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°	415.3	415.3	415.3	415.3	415.3
2.5°	414.4	415.3	415.3	415.3	415.3
5°	413.4	413.4	414.4	414.4	414.4
7.5°	411.4	411.4	411.4	412.4	412.4
10°	408.5	408.5	408.5	409.5	409.5
12.5°	405.6	405.6	405.6	406.6	407.5
15°	402.7	401.7	402.7	403.6	405.6
17.5°	398.8	399.7	399.7	401.7	403.6
20°	395.8	395.8	395.8	398.8	400.7
22.5°	391.0	391.0	392.9	394.9	396.8
25°	385.1	386.1	389.0	390.0	391.0
27.5°	376.3	379.3	383.2	384.1	383.2
30°	365.6	369.5	376.3	375.4	374.4
32.5°	353.9	358.8	368.5	365.6	362.7
35°	339.3	346.1	357.8	352.9	348.1
37.5°	323.7	332.5	344.2	339.3	332.5
40°	305.2	315.9	329.5	322.7	314.9
42.5°	286.6	298.3	313.0	304.2	294.4
45°	266.2	278.8	294.4	285.7	274.0
47.5°	246.7	259.3	274.9	264.2	252.5
50°	226.2	237.9	254.5	242.8	231.1
52.5°	200.8	216.4	233.0	220.3	206.7
55°	178.4	192.1	211.6	196.0	183.3
57.5°	140.4	167.7	189.1	170.6	144.3
60°	104.3	130.6	165.7	134.5	107.2
62.5°	72.1	96.5	142.3	97.5	73.1
65°	49.7	65.3	116.0	66.3	49.7
67.5°	37.0	43.9	78.0	43.9	37.0
70°	30.2	32.2	45.8	32.2	29.2
72.5°	22.4	25.3	25.3	25.3	23.4
75°	13.6	16.6	15.6	16.6	14.6
77.5°	5.8	7.8	9.7	8.8	5.8
80°	3.9	3.9	4.9	3.9	3.9
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)