

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: P252994

Luminaire Tested: **PRS615D010-S6M12-64SWDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252994
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: PRS615D010-S6M12-64SWDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1387.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

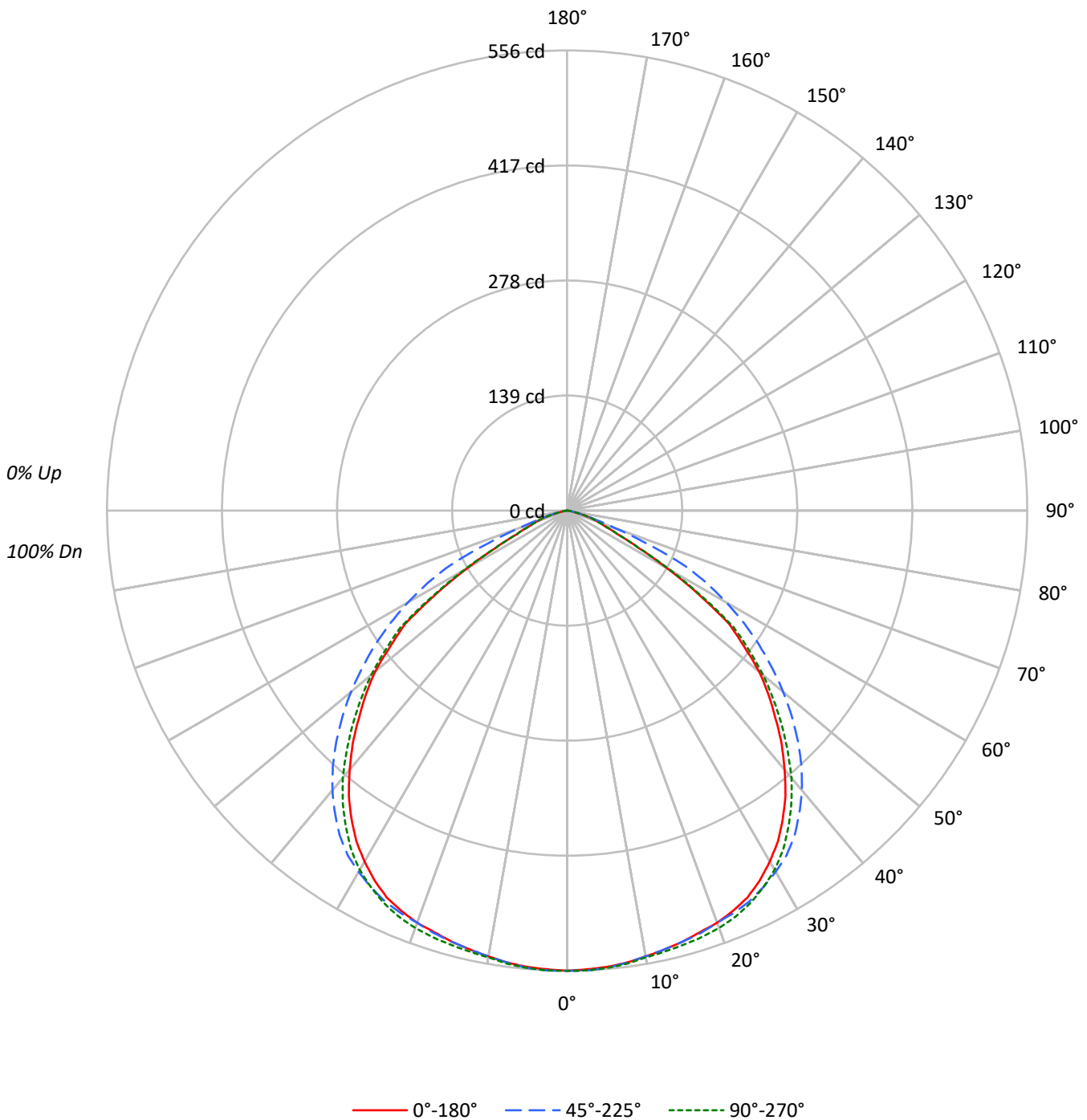
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23943	23943	23943
5°	23922	23979	23979
10°	23915	23915	23972
15°	24035	24035	24208
20°	24284	24284	24586
25°	24499	24746	24870
30°	24341	25052	24923
35°	23879	25182	24499
40°	22965	24803	23702
45°	21701	24009	22334
50°	20289	22821	20724
55°	17933	21266	18421
60°	12030	19108	12366
65°	6785	15832	6785
70°	5098	7729	4935
75°	3044	3477	3261
80°	1289	1612	1289
85°	642	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.8
10°-20°	152.8	11.0
20°-30°	239.4	17.3
30°-40°	292.5	21.1
40°-50°	290.8	21.0
50°-60°	229.6	16.6
60°-70°	102.8	7.4
70°-80°	23.9	1.7
80°-90°	2.5	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°	444.9	32.1
0°-40°	737.4	53.2
0°-60°	1257.9	90.7
0°-90°	1387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	554	554	555	555	555	53
15°	539	538	539	540	543	152
25°	516	517	521	522	524	237
35°	454	464	479	473	466	283
45°	356	373	394	382	367	275
55°	239	257	283	262	245	204
65°	67	88	155	89	67	75
75°	18	22	21	22	20	21
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°	556.1	556.1	556.1	556.1	556.1
2.5°	554.8	556.1	556.1	556.1	556.1
5°	553.5	553.5	554.8	554.8	554.8
7.5°	550.9	550.9	550.9	552.2	552.2
10°	547.0	547.0	547.0	548.3	548.3
12.5°	543.1	543.1	543.1	544.4	545.7
15°	539.2	537.9	539.2	540.5	543.1
17.5°	534.0	535.3	535.3	537.9	540.5
20°	530.0	530.0	530.0	534.0	536.6
22.5°	523.5	523.5	526.1	528.7	531.3
25°	515.7	517.0	520.9	522.2	523.5
27.5°	503.9	507.8	513.1	514.4	513.1
30°	489.6	494.8	503.9	502.6	501.3
32.5°	473.9	480.4	493.5	489.6	485.7
35°	454.3	463.5	479.1	472.6	466.1
37.5°	433.4	445.2	460.8	454.3	445.2
40°	408.6	423.0	441.3	432.1	421.7
42.5°	383.8	399.5	419.1	407.3	394.3
45°	356.4	373.4	394.3	382.5	366.8
47.5°	330.3	347.3	368.2	353.8	338.1
50°	302.9	318.5	340.7	325.1	309.4
52.5°	268.9	289.8	312.0	295.0	276.8
55°	238.9	257.2	283.3	262.4	245.4
57.5°	188.0	224.5	253.3	228.5	193.2
60°	139.7	174.9	221.9	180.2	143.6
62.5°	96.6	129.2	190.6	130.6	97.9
65°	66.6	87.5	155.4	88.8	66.6
67.5°	49.6	58.7	104.4	58.7	49.6
70°	40.5	43.1	61.4	43.1	39.2
72.5°	30.0	33.9	33.9	33.9	31.3
75°	18.3	22.2	20.9	22.2	19.6
77.5°	7.8	10.4	13.1	11.7	7.8
80°	5.2	5.2	6.5	5.2	5.2
82.5°	3.9	3.9	3.9	3.9	3.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)