

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: P253054

Luminaire Tested: **PRS615D010-S6M12-61SWDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SWDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1293.5 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

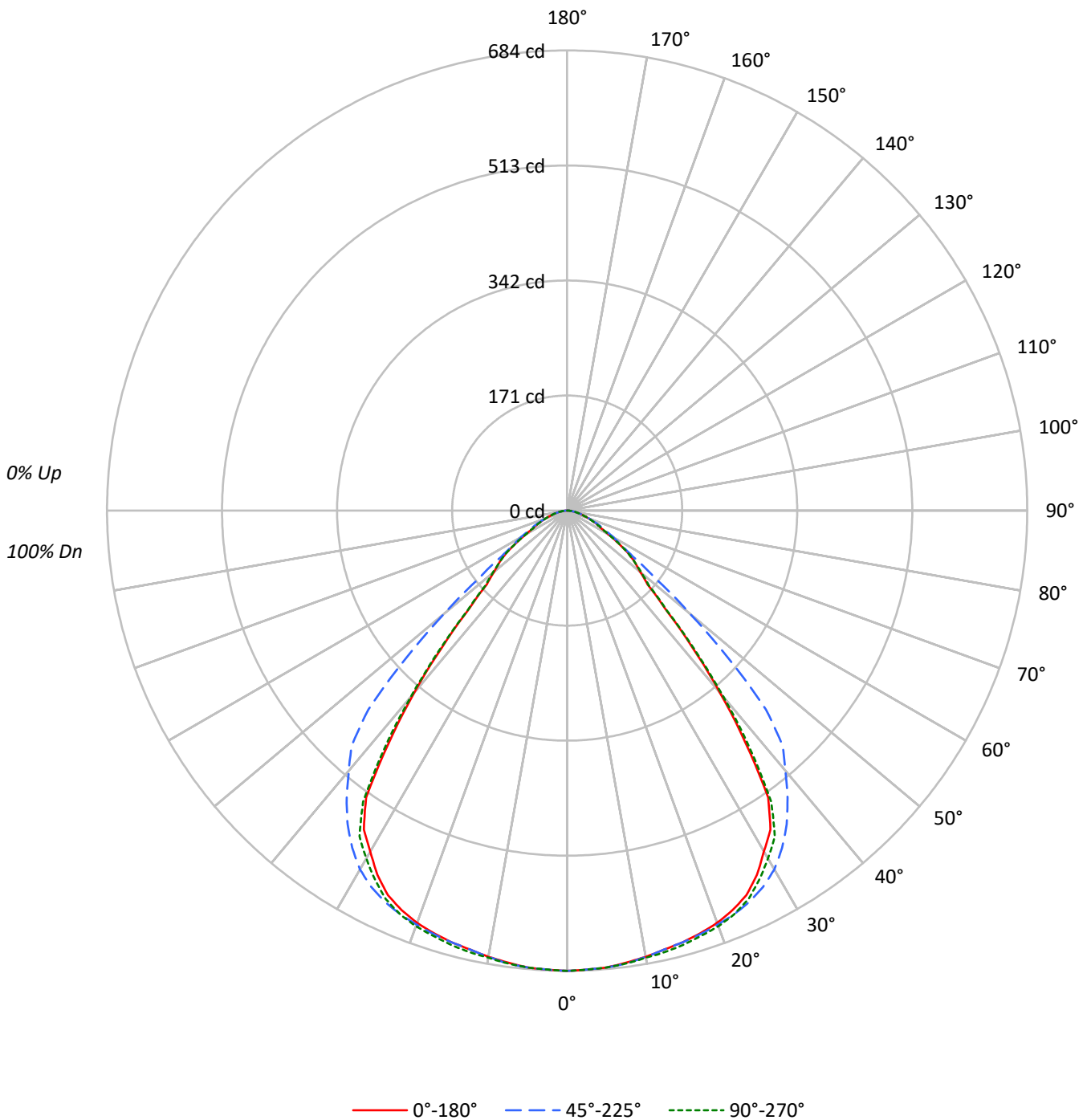
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29459	29459	29459
5°	29459	29459	29459
10°	29445	29445	29507
15°	29602	29602	29785
20°	29878	30002	30126
25°	29962	30471	30281
30°	29089	30620	29691
35°	27379	29913	27800
40°	19869	28372	20318
45°	12476	25440	12720
50°	9505	15962	9686
55°	8340	8948	8340
60°	6114	6803	6114
65°	5043	5461	5043
70°	4217	4381	4217
75°	3560	3560	3560
80°	3000	3000	3000
85°	2668	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	5.0
10°-20°	188.2	14.6
20°-30°	292.9	22.6
30°-40°	334.7	25.9
40°-50°	223.9	17.3
50°-60°	107.2	8.3
60°-70°	52.2	4.0
70°-80°	23.5	1.8
80°-90°	6.0	0.5
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°	545.9	42.2
0°-40°	880.6	68.1
0°-60°	1211.7	93.7
0°-90°	1293.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1293.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	682	682	682	682	682	65
15°	664	664	664	667	668	188
25°	631	635	641	640	637	289
35°	521	550	569	558	529	309
45°	205	264	418	268	209	170
55°	111	119	119	120	111	97
65°	50	51	54	51	50	50
75°	21	21	21	21	21	23
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.2	684.2	684.2	684.2	684.2
2.5°	682.9	682.9	682.9	682.9	682.9
5°	681.6	681.6	681.6	681.6	681.6
7.5°	677.5	677.5	678.9	677.5	678.9
10°	673.5	673.5	673.5	674.9	674.9
12.5°	668.2	668.2	668.2	670.8	672.2
15°	664.1	664.1	664.1	666.8	668.2
17.5°	658.8	658.8	660.1	662.8	662.8
20°	652.1	653.4	654.8	657.5	657.5
22.5°	642.7	645.4	649.4	650.8	649.4
25°	630.7	634.7	641.4	640.0	637.4
27.5°	610.6	620.0	630.7	625.3	618.6
30°	585.1	599.9	615.9	605.2	597.2
32.5°	562.4	574.4	594.5	582.5	574.4
35°	520.9	550.3	569.1	558.4	528.9
37.5°	436.5	502.1	538.3	510.2	447.2
40°	353.5	423.1	504.8	428.5	361.5
42.5°	274.5	341.4	474.0	346.8	279.9
45°	204.9	263.8	417.8	267.8	208.9
47.5°	162.0	195.5	325.4	199.5	164.7
50°	141.9	155.3	238.3	158.0	144.6
52.5°	127.2	135.2	166.0	136.6	127.2
55°	111.1	119.2	119.2	120.5	111.1
57.5°	89.7	101.8	93.7	101.8	91.1
60°	71.0	80.3	79.0	80.3	71.0
62.5°	57.6	62.9	64.3	62.9	57.6
65°	49.5	50.9	53.6	50.9	49.5
67.5°	41.5	42.8	42.8	42.8	40.2
70°	33.5	34.8	34.8	34.8	33.5
72.5°	26.8	28.1	28.1	28.1	26.8
75°	21.4	21.4	21.4	21.4	21.4
77.5°	16.1	17.4	16.1	17.4	16.1
80°	12.1	12.1	12.1	12.1	12.1
82.5°	8.0	8.0	8.0	8.0	8.0
85°	5.4	5.4	5.4	5.4	5.4
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)