

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: P238112

Luminaire Tested: **PRS640D010-S6M24-64SMDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SMDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 4220.8 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

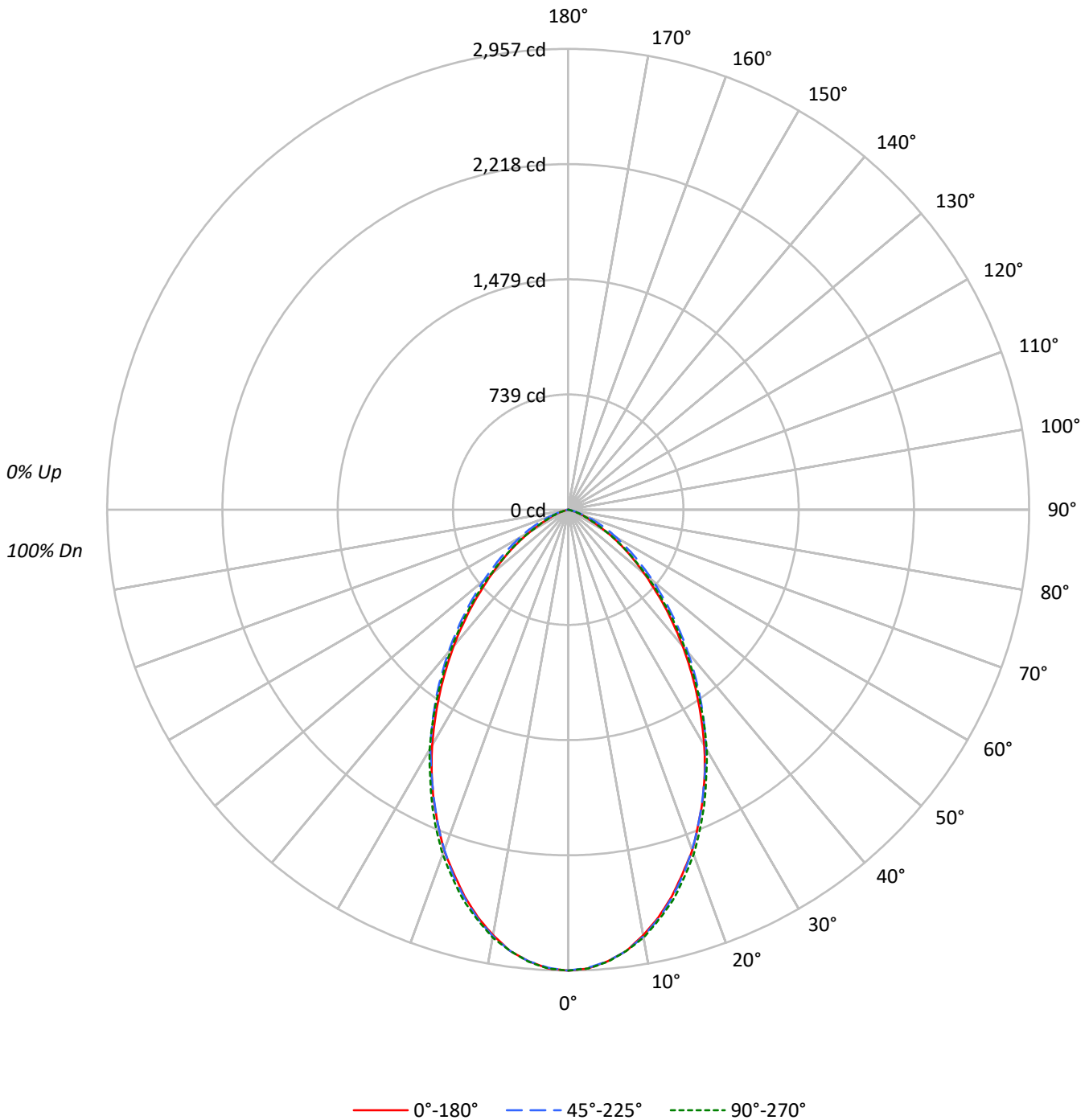
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	127329	127329	127329
5°	125693	125693	125853
10°	121200	121528	121860
15°	114476	114815	115657
20°	106598	106424	107812
25°	97070	96890	98325
30°	86750	87879	88440
35°	75436	77617	76824
40°	64108	67081	65591
45°	53120	56804	54503
50°	42501	47310	43767
55°	33457	38839	34020
60°	23741	30570	24068
65°	15394	23086	15771
70°	10461	14263	10461
75°	5024	6288	5024
80°	0	942	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	6.5
10°-20°	721.8	17.1
20°-30°	939.6	22.3
30°-40°	911.3	21.6
40°-50°	704.3	16.7
50°-60°	435.6	10.3
60°-70°	192.1	4.6
70°-80°	42.2	1.0
80°-90°	0.1	0.0
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°	1935.1	45.8
0°-40°	2846.4	67.4
0°-60°	3986.3	94.4
0°-90°	4220.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4220.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2957	2957	2957	2957	2957	
5°	2908	2912	2908	2912	2912	273
15°	2568	2572	2576	2591	2595	719
25°	2043	2040	2040	2058	2070	936
35°	1435	1450	1477	1465	1462	895
45°	872	906	933	922	895	673
55°	446	480	517	487	453	400
65°	151	181	227	181	155	160
75°	30	38	38	38	30	35
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2957.3	2957.3	2957.3	2957.3	2957.3
2.5°	2945.9	2945.9	2942.1	2945.9	2945.9
5°	2908.2	2911.9	2908.2	2911.9	2911.9
7.5°	2855.3	2855.3	2855.3	2859.1	2855.3
10°	2772.2	2776.0	2779.7	2783.5	2787.3
12.5°	2677.8	2681.5	2685.3	2692.9	2692.9
15°	2568.2	2572.0	2575.8	2590.9	2594.7
17.5°	2443.6	2447.4	2454.9	2470.0	2473.8
20°	2326.5	2315.2	2322.7	2334.1	2353.0
22.5°	2183.0	2183.0	2183.0	2198.1	2213.2
25°	2043.3	2039.5	2039.5	2058.4	2069.7
27.5°	1896.0	1896.0	1899.7	1911.1	1918.6
30°	1744.9	1744.9	1767.6	1763.8	1778.9
32.5°	1586.3	1597.6	1620.3	1612.7	1616.5
35°	1435.2	1450.3	1476.7	1465.4	1461.6
37.5°	1284.1	1303.0	1333.2	1321.9	1310.6
40°	1140.6	1167.0	1193.5	1178.4	1167.0
42.5°	1000.9	1031.1	1061.3	1046.2	1031.1
45°	872.4	906.4	932.9	921.5	895.1
47.5°	744.0	785.6	812.0	800.7	774.2
50°	634.5	676.1	706.3	687.4	653.4
52.5°	536.3	574.1	604.3	581.6	547.6
55°	445.7	479.7	517.4	487.2	453.2
57.5°	358.8	396.6	430.6	404.1	366.4
60°	275.7	317.3	355.0	324.8	279.5
62.5°	203.9	245.5	290.8	249.3	207.7
65°	151.1	181.3	226.6	181.3	154.8
67.5°	113.3	132.2	170.0	136.0	113.3
70°	83.1	98.2	113.3	98.2	83.1
72.5°	56.7	68.0	68.0	68.0	56.7
75°	30.2	37.8	37.8	37.8	30.2
77.5°	3.8	11.3	15.1	11.3	3.8
80°	0.0	0.0	3.8	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)