

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: P238047

Luminaire Tested: **PRS640D010-S6M24-64SNDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SNDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4485.3 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

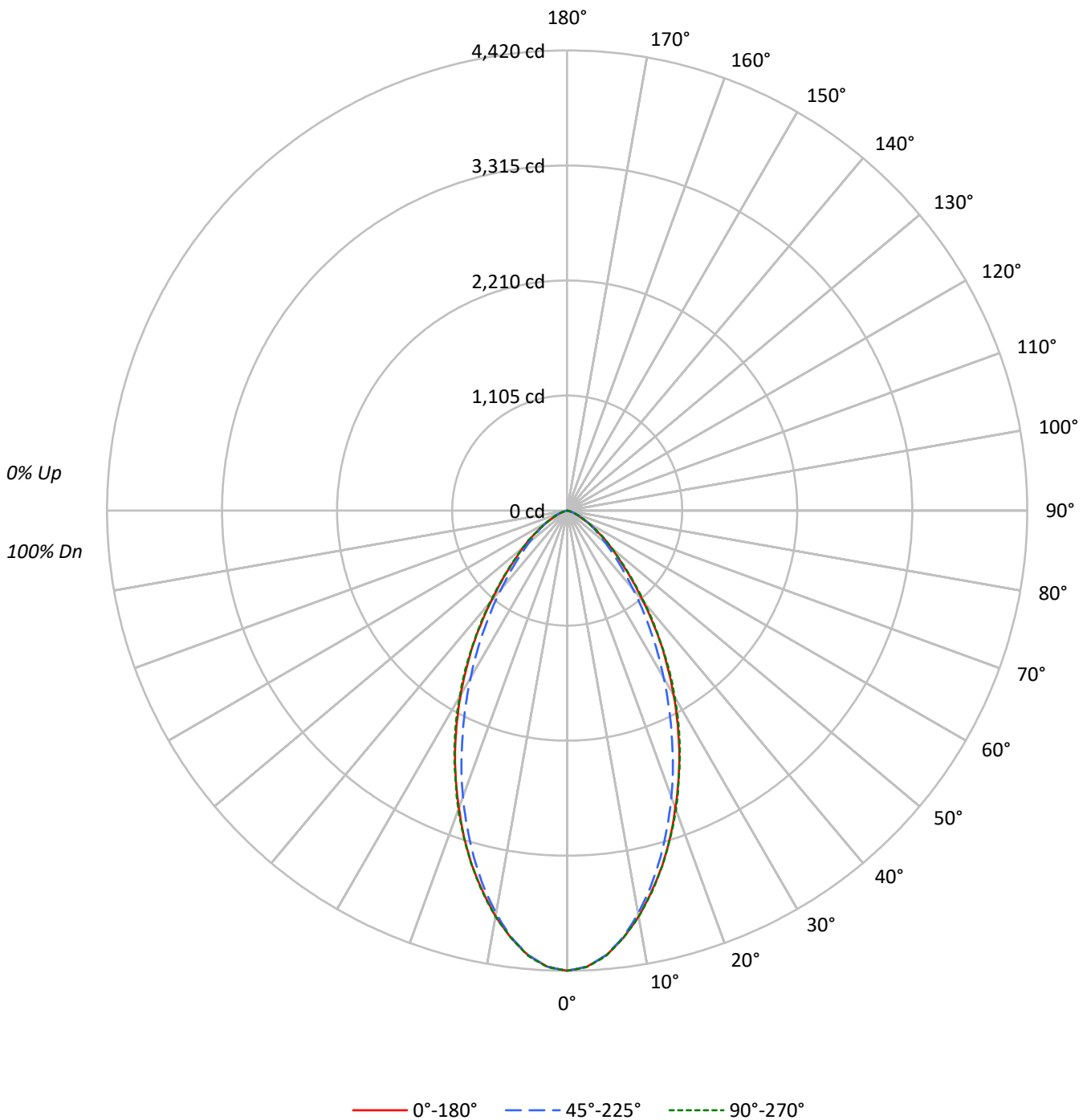
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	190302	190302	190302
5°	185380	185207	185548
10°	172978	171767	173153
15°	157294	153938	157468
20°	139184	134103	140091
25°	120980	112890	121731
30°	101799	92149	102585
35°	82852	72650	83057
40°	63664	55430	64552
45°	47987	41722	48955
50°	36606	31837	37403
55°	27354	24974	27354
60°	19099	20124	19435
65°	12908	15333	13316
70°	8976	9970	8472
75°	3959	4608	3959
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.3	8.9
10°-20°	973.0	21.7
20°-30°	1125.5	25.1
30°-40°	921.3	20.5
40°-50°	576.3	12.8
50°-60°	317.0	7.1
60°-70°	141.4	3.2
70°-80°	32.4	0.7
80°-90°	0.0	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°	2496.8	55.7
0°-40°	3418.2	76.2
0°-60°	4311.5	96.1
0°-90°	4485.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4485.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4420	4420	4420	4420	4420	
5°	4289	4285	4285	4293	4293	399
15°	3529	3489	3454	3497	3533	983
25°	2547	2448	2376	2459	2562	1164
35°	1576	1458	1382	1469	1580	980
45°	788	721	685	733	804	619
55°	364	348	333	356	364	330
65°	127	139	150	139	131	133
75°	24	28	28	28	24	28
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°	4419.9	4419.9	4419.9	4419.9	4419.9
2.5°	4384.2	4388.2	4384.2	4388.2	4388.2
5°	4289.2	4285.2	4285.2	4293.1	4293.1
7.5°	4138.7	4134.7	4130.8	4138.7	4138.7
10°	3956.5	3948.6	3928.8	3952.5	3960.5
12.5°	3746.6	3730.8	3703.0	3730.8	3754.5
15°	3528.8	3489.2	3453.5	3497.1	3532.7
17.5°	3291.1	3239.7	3192.1	3235.7	3295.1
20°	3037.7	2978.3	2926.8	2982.2	3057.5
22.5°	2796.1	2712.9	2653.5	2720.8	2800.0
25°	2546.6	2447.6	2376.3	2459.4	2562.4
27.5°	2293.1	2186.2	2110.9	2202.0	2316.9
30°	2047.6	1932.7	1853.5	1952.5	2063.4
32.5°	1802.0	1695.1	1615.9	1710.9	1829.7
35°	1576.3	1457.5	1382.2	1469.3	1580.2
37.5°	1342.6	1235.7	1176.3	1251.5	1362.4
40°	1132.7	1037.6	986.2	1053.5	1148.5
42.5°	950.5	867.3	823.8	875.3	970.3
45°	788.1	720.8	685.2	732.7	804.0
47.5°	653.5	602.0	566.3	609.9	665.4
50°	546.5	499.0	475.3	506.9	558.4
52.5°	451.5	419.8	392.1	423.8	463.4
55°	364.4	348.5	332.7	356.4	364.4
57.5°	285.2	281.2	277.2	285.2	289.1
60°	221.8	225.7	233.7	225.7	225.7
62.5°	170.3	178.2	194.1	178.2	174.3
65°	126.7	138.6	150.5	138.6	130.7
67.5°	95.1	103.0	110.9	103.0	95.1
70°	71.3	75.2	79.2	75.2	67.3
72.5°	43.6	51.5	51.5	51.5	43.6
75°	23.8	27.7	27.7	27.7	23.8
77.5°	4.0	11.9	11.9	11.9	4.0
80°	0.0	0.0	0.0	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)