

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: P237997

Luminaire Tested: **PRS640D010-S6M24-64SNDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SNDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096.9 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

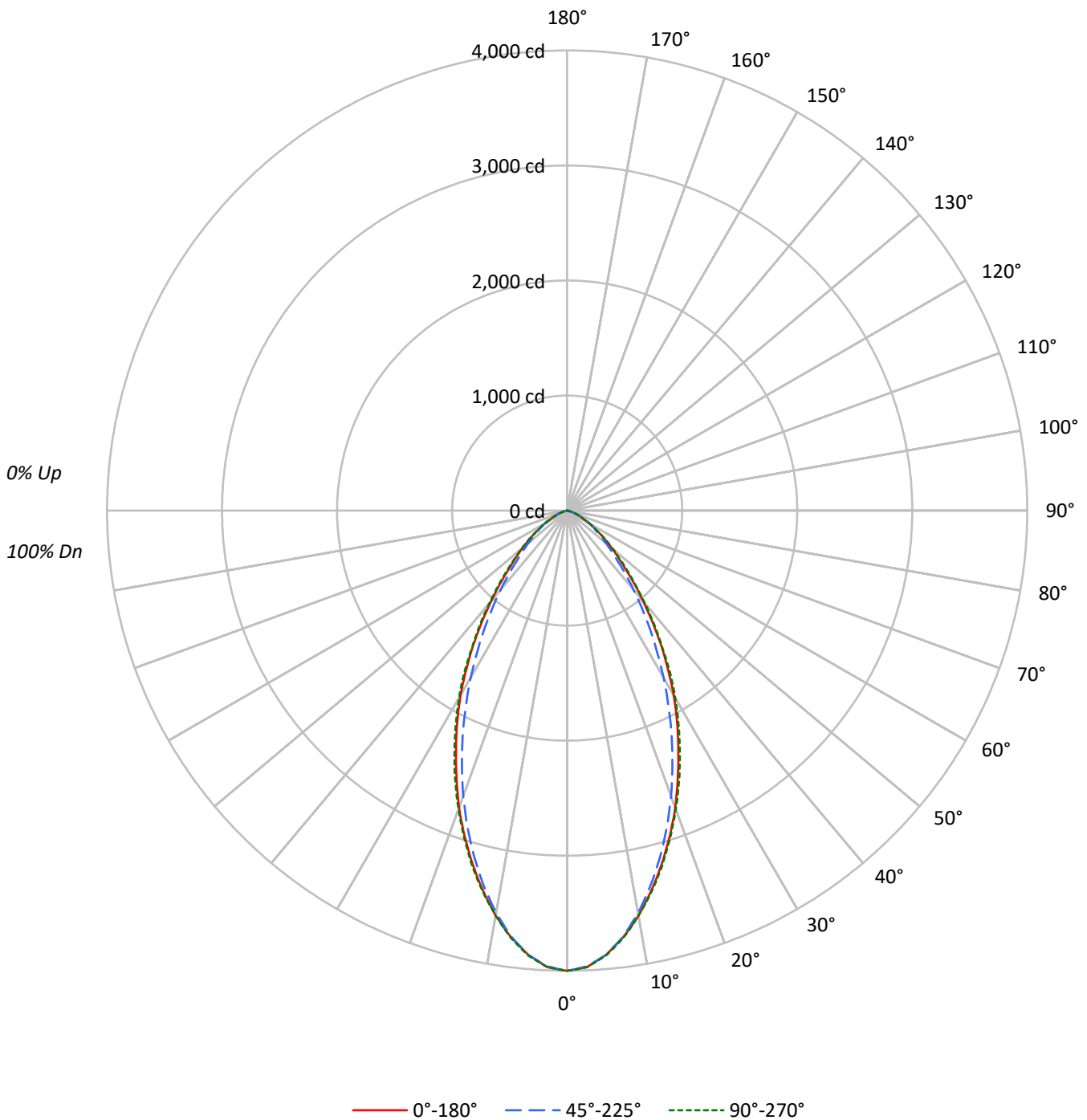
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68					68			
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62					62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57					57			
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52					52			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48					48			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	172244	172244	172244
5°	167500	167500	167806
10°	156316	155223	156316
15°	141698	138992	142335
20°	125855	120944	126506
25°	108600	101983	110125
30°	91985	83285	93407
35°	74532	65707	75283
40°	57616	50388	58824
45°	43500	37843	45022
50°	33732	29426	34690
55°	25740	23330	26273
60°	18764	19685	18764
65°	13468	15282	13102
70°	9441	10788	9441
75°	5340	5939	5340
80°	1760	1760	1760
85°	1778	1778	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.1	8.8
10°-20°	878.5	21.4
20°-30°	1015.5	24.8
30°-40°	833.0	20.3
40°-50°	526.5	12.9
50°-60°	298.9	7.3
60°-70°	141.9	3.5
70°-80°	39.6	1.0
80°-90°	2.9	0.1
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°	2254.1	55.0
0°-40°	3087.1	75.4
0°-60°	3912.5	95.5
0°-90°	4096.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4000	4000	4000	4000	4000	
5°	3876	3876	3876	3886	3883	360
15°	3179	3154	3118	3161	3193	887
25°	2286	2204	2147	2222	2318	1049
35°	1418	1314	1250	1336	1432	884
45°	714	657	622	668	739	564
55°	343	329	311	336	350	311
65°	132	139	150	139	129	135
75°	32	36	36	36	32	36
85°	4	4	4	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4000.5	4000.5	4000.5	4000.5	4000.5
2.5°	3971.9	3968.3	3964.8	3968.3	3971.9
5°	3875.5	3875.5	3875.5	3886.2	3882.6
7.5°	3739.7	3736.2	3732.6	3743.3	3746.9
10°	3575.4	3561.1	3550.4	3568.3	3575.4
12.5°	3382.5	3364.7	3343.3	3368.3	3393.3
15°	3178.9	3153.9	3118.2	3161.1	3193.2
17.5°	2964.6	2918.2	2882.5	2928.9	2978.9
20°	2746.8	2689.6	2639.6	2689.6	2761.0
22.5°	2514.6	2439.6	2389.6	2453.9	2543.2
25°	2286.0	2203.8	2146.7	2221.7	2318.1
27.5°	2068.1	1968.1	1903.8	1989.5	2096.7
30°	1850.2	1743.1	1675.2	1760.9	1878.8
32.5°	1628.8	1525.2	1453.7	1546.6	1660.9
35°	1418.0	1314.4	1250.1	1335.9	1432.3
37.5°	1210.9	1114.4	1064.4	1132.3	1239.4
40°	1025.1	939.4	896.5	957.3	1046.6
42.5°	864.4	785.8	750.1	800.1	885.8
45°	714.4	657.2	621.5	667.9	739.4
47.5°	600.1	550.1	521.5	560.8	617.9
50°	503.6	464.3	439.3	471.5	517.9
52.5°	421.5	389.3	367.9	396.5	432.2
55°	342.9	328.6	310.8	335.8	350.0
57.5°	271.5	267.9	267.9	271.5	275.0
60°	217.9	217.9	228.6	221.5	217.9
62.5°	167.9	175.0	192.9	175.0	167.9
65°	132.2	139.3	150.0	139.3	128.6
67.5°	100.0	107.2	114.3	107.2	96.4
70°	75.0	82.2	85.7	82.2	75.0
72.5°	53.6	57.1	57.1	57.1	50.0
75°	32.1	35.7	35.7	35.7	32.1
77.5°	10.7	17.9	17.9	17.9	10.7
80°	7.1	7.1	7.1	7.1	7.1
82.5°	3.6	3.6	3.6	3.6	3.6
85°	3.6	3.6	3.6	3.6	3.6
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)