

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: P253027

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253027
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: PRS640D010-S6M24-64SWDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4204.2 lumens
Efficiency: N/A
Efficacy: 110.6 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

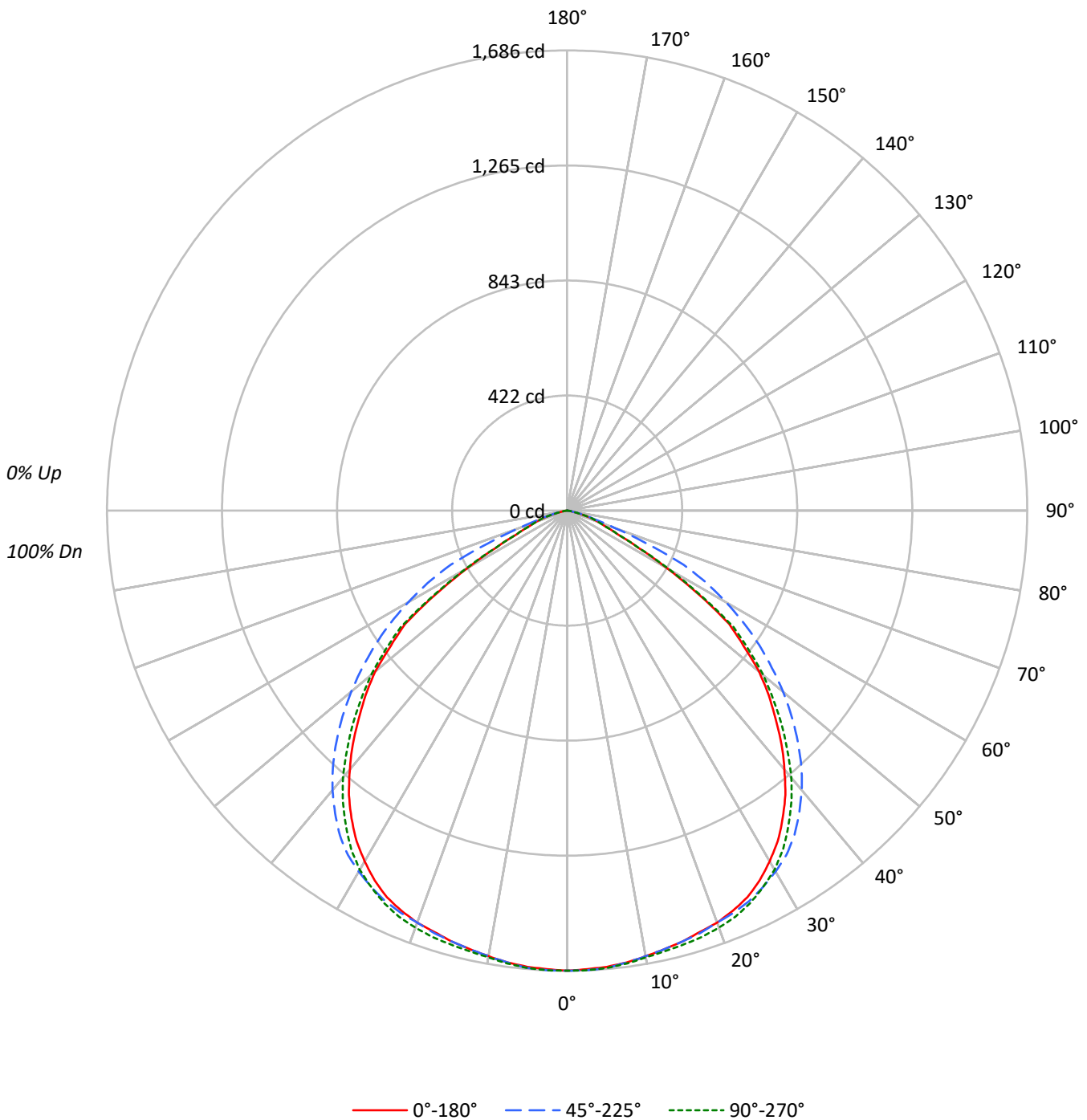
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88					88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76					76			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65					65			
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57					57			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	72579	72579	72579
5°	72515	72683	72683
10°	72488	72488	72658
15°	72844	72844	73374
20°	73608	73608	74515
25°	74253	75004	75384
30°	73774	75937	75544
35°	72377	76329	74253
40°	69610	75174	71836
45°	65779	72763	67703
50°	61490	69180	62816
55°	54355	64459	55841
60°	36460	57927	37484
65°	20559	47975	20559
70°	15446	23415	14943
75°	9216	10530	9881
80°	3918	4909	3918
85°	1976	1976	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	3.8
10°-20°	463.2	11.0
20°-30°	725.7	17.3
30°-40°	886.6	21.1
40°-50°	881.4	21.0
50°-60°	696.0	16.6
60°-70°	311.5	7.4
70°-80°	72.6	1.7
80°-90°	7.6	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°	1348.6	32.1
0°-40°	2235.2	53.2
0°-60°	3812.6	90.7
0°-90°	4204.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4204.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1678	1678	1682	1682	1682	160
15°	1634	1630	1634	1638	1646	462
25°	1563	1567	1579	1583	1587	718
35°	1377	1405	1452	1432	1413	859
45°	1080	1132	1195	1159	1112	834
55°	724	780	859	795	744	619
65°	202	265	471	269	202	226
75°	55	67	63	67	59	63
85°	4	4	4	4	4	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.7	1685.7	1685.7	1685.7	1685.7
2.5°	1681.7	1685.7	1685.7	1685.7	1685.7
5°	1677.8	1677.8	1681.7	1681.7	1681.7
7.5°	1669.9	1669.9	1669.9	1673.8	1673.8
10°	1658.0	1658.0	1658.0	1661.9	1661.9
12.5°	1646.1	1646.1	1646.1	1650.1	1654.0
15°	1634.2	1630.3	1634.2	1638.2	1646.1
17.5°	1618.4	1622.4	1622.4	1630.3	1638.2
20°	1606.5	1606.5	1606.5	1618.4	1626.3
22.5°	1586.8	1586.8	1594.7	1602.6	1610.5
25°	1563.0	1567.0	1578.8	1582.8	1586.8
27.5°	1527.4	1539.3	1555.1	1559.1	1555.1
30°	1483.9	1499.7	1527.4	1523.4	1519.5
32.5°	1436.4	1456.2	1495.7	1483.9	1472.0
35°	1377.0	1404.7	1452.2	1432.4	1412.7
37.5°	1313.7	1349.3	1396.8	1377.0	1349.3
40°	1238.5	1282.1	1337.5	1309.8	1278.1
42.5°	1163.4	1210.8	1270.2	1234.6	1195.0
45°	1080.3	1131.7	1195.0	1159.4	1111.9
47.5°	1001.1	1052.6	1115.9	1072.3	1024.9
50°	918.0	965.5	1032.8	985.3	937.8
52.5°	815.1	878.5	945.7	894.3	838.9
55°	724.1	779.5	858.7	795.4	743.9
57.5°	569.8	680.6	767.7	692.5	585.6
60°	423.4	530.2	672.7	546.1	435.3
62.5°	292.8	391.7	577.7	395.7	296.8
65°	201.8	265.1	470.9	269.1	201.8
67.5°	150.4	178.1	316.6	178.1	150.4
70°	122.7	130.6	186.0	130.6	118.7
72.5°	91.0	102.9	102.9	102.9	95.0
75°	55.4	67.3	63.3	67.3	59.4
77.5°	23.7	31.7	39.6	35.6	23.7
80°	15.8	15.8	19.8	15.8	15.8
82.5°	11.9	11.9	11.9	11.9	11.9
85°	4.0	4.0	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	4.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)