

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: P253082

Luminaire Tested: **PRS640D010-S6M24-61SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253082
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: PRS640D010-S6M24-61SWDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP 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: 3456.3 lumens
Efficiency: N/A
Efficacy: 91.0 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

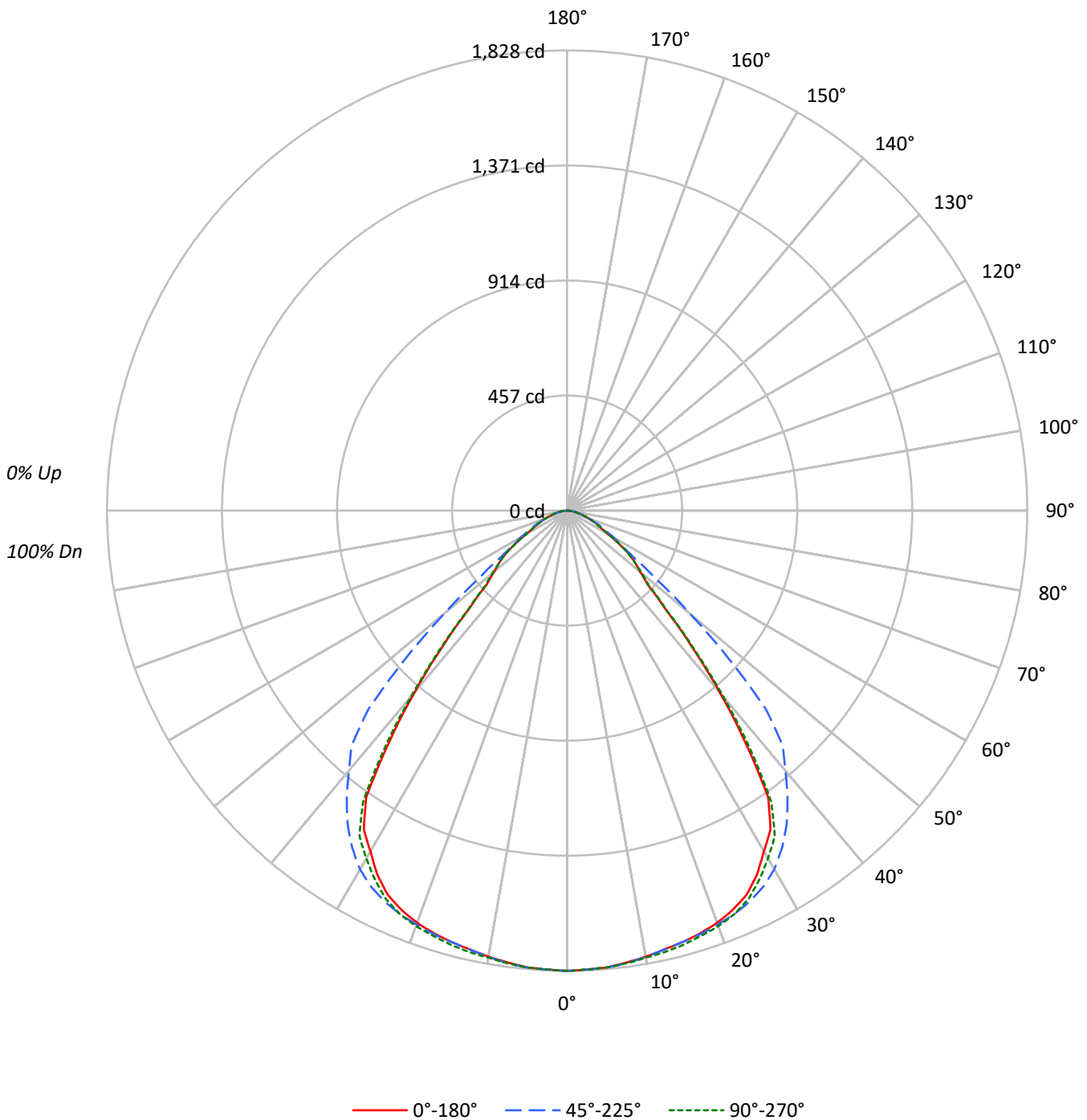
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	78719	78719	78719
5°	78712	78712	78712
10°	78683	78683	78840
15°	79102	79102	79583
20°	79835	80165	80490
25°	80058	81417	80909
30°	77732	81823	79332
35°	73155	79925	74285
40°	53091	75815	54294
45°	33331	67971	33989
50°	25407	42661	25882
55°	22294	23901	22294
60°	16327	18178	16327
65°	13489	14579	13489
70°	11254	11707	11254
75°	9515	9515	9515
80°	7984	7984	7984
85°	7064	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	5.0
10°-20°	503.0	14.6
20°-30°	782.6	22.6
30°-40°	894.4	25.9
40°-50°	598.3	17.3
50°-60°	286.4	8.3
60°-70°	139.6	4.0
70°-80°	62.8	1.8
80°-90°	16.1	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°	1458.7	42.2
0°-40°	2353.1	68.1
0°-60°	3237.8	93.7
0°-90°	3456.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1821	1821	1821	1821	1821	173
15°	1775	1775	1775	1782	1785	502
25°	1685	1696	1714	1710	1703	771
35°	1392	1470	1521	1492	1413	827
45°	547	705	1116	716	558	454
55°	297	318	318	322	297	259
65°	132	136	143	136	132	133
75°	57	57	57	57	57	61
85°	14	14	14	14	14	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.3	1828.3	1828.3	1828.3	1828.3
2.5°	1824.7	1824.7	1824.7	1824.7	1824.7
5°	1821.2	1821.2	1821.2	1821.2	1821.2
7.5°	1810.4	1810.4	1814.0	1810.4	1814.0
10°	1799.7	1799.7	1799.7	1803.3	1803.3
12.5°	1785.4	1785.4	1785.4	1792.5	1796.1
15°	1774.6	1774.6	1774.6	1781.8	1785.4
17.5°	1760.3	1760.3	1763.9	1771.1	1771.1
20°	1742.4	1746.0	1749.6	1756.7	1756.7
22.5°	1717.4	1724.5	1735.3	1738.9	1735.3
25°	1685.2	1695.9	1713.8	1710.2	1703.1
27.5°	1631.5	1656.6	1685.2	1670.9	1653.0
30°	1563.5	1602.9	1645.8	1617.2	1595.7
32.5°	1502.7	1534.9	1588.6	1556.4	1534.9
35°	1391.8	1470.5	1520.6	1492.0	1413.3
37.5°	1166.4	1341.7	1438.3	1363.2	1195.0
40°	944.6	1130.6	1348.9	1144.9	966.0
42.5°	733.5	912.4	1266.6	926.7	747.8
45°	547.4	704.8	1116.3	715.6	558.2
47.5°	432.9	522.4	869.4	533.1	440.1
50°	379.3	415.0	636.9	422.2	386.4
52.5°	339.9	361.4	443.7	364.9	339.9
55°	297.0	318.4	318.4	322.0	297.0
57.5°	239.7	271.9	250.5	271.9	243.3
60°	189.6	214.7	211.1	214.7	189.6
62.5°	153.8	168.2	171.7	168.2	153.8
65°	132.4	136.0	143.1	136.0	132.4
67.5°	110.9	114.5	114.5	114.5	107.3
70°	89.4	93.0	93.0	93.0	89.4
72.5°	71.6	75.1	75.1	75.1	71.6
75°	57.2	57.2	57.2	57.2	57.2
77.5°	42.9	46.5	42.9	46.5	42.9
80°	32.2	32.2	32.2	32.2	32.2
82.5°	21.5	21.5	21.5	21.5	21.5
85°	14.3	14.3	14.3	14.3	14.3
87.5°	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)