

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: P253022

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253022
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 3793.3 lumens
Efficiency: N/A
Efficacy: 99.8 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

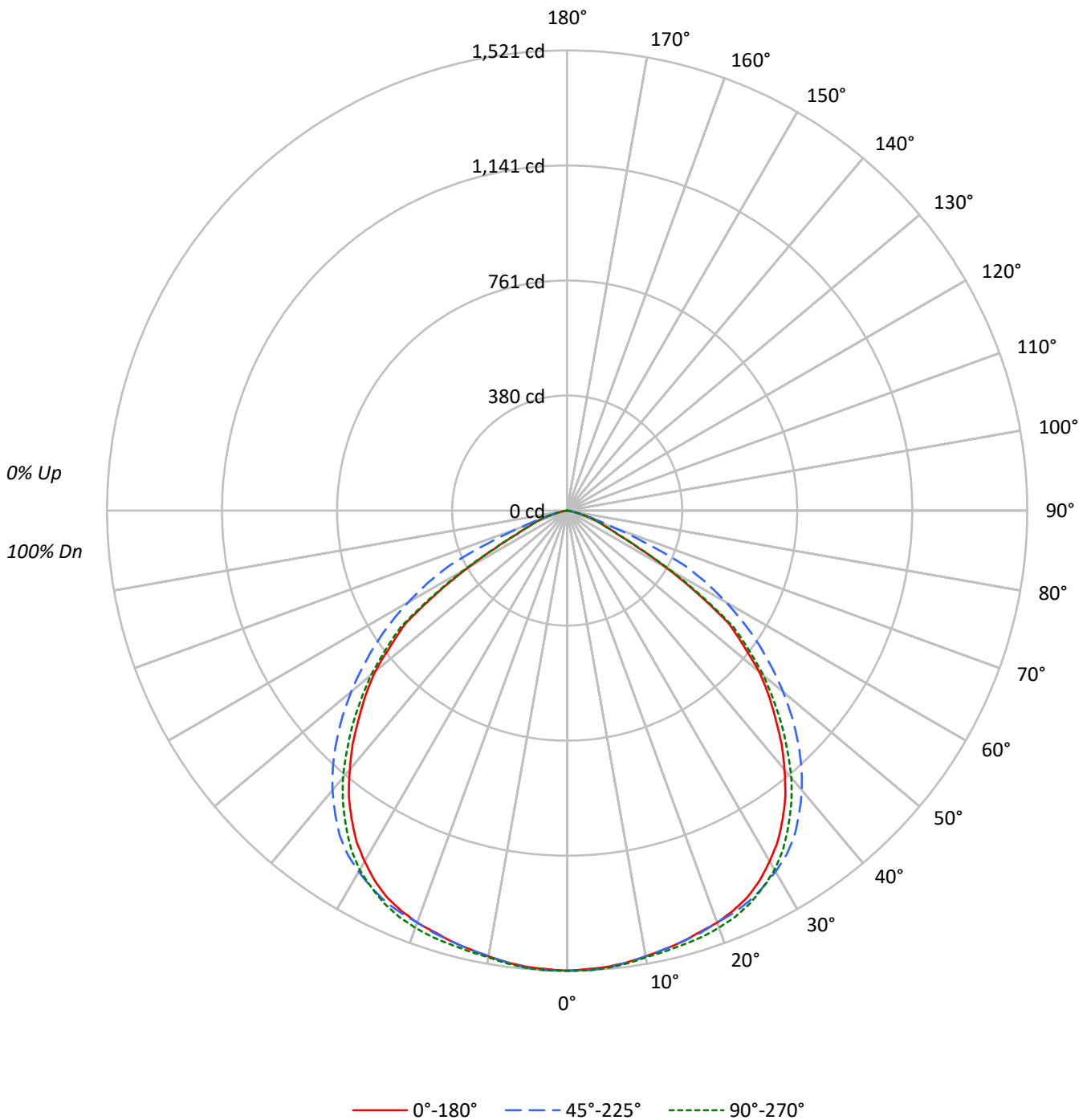
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	65483	65483	65483
5°	65427	65582	65582
10°	65401	65401	65558
15°	65725	65725	66202
20°	66414	66414	67235
25°	66999	67673	68015
30°	66560	68514	68161
35°	65307	68871	66995
40°	62809	67823	64816
45°	59349	65651	61085
50°	55482	62414	56681
55°	49048	58153	50384
60°	32895	52261	33816
65°	18552	43288	18552
70°	13936	21124	13482
75°	8318	9499	8917
80°	3546	4438	3546
85°	1778	1778	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.8
10°-20°	417.9	11.0
20°-30°	654.8	17.3
30°-40°	800.0	21.1
40°-50°	795.3	21.0
50°-60°	627.9	16.6
60°-70°	281.1	7.4
70°-80°	65.5	1.7
80°-90°	6.8	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°	1216.8	32.1
0°-40°	2016.7	53.2
0°-60°	3439.9	90.7
0°-90°	3793.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1514	1514	1517	1517	1517	144
15°	1474	1471	1474	1478	1485	417
25°	1410	1414	1424	1428	1432	648
35°	1242	1267	1310	1292	1275	775
45°	975	1021	1078	1046	1003	752
55°	653	703	775	718	671	559
65°	182	239	425	243	182	204
75°	50	61	57	61	54	57
85°	4	4	4	4	4	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1520.9	1520.9	1520.9	1520.9	1520.9
2.5°	1517.4	1520.9	1520.9	1520.9	1520.9
5°	1513.8	1513.8	1517.4	1517.4	1517.4
7.5°	1506.7	1506.7	1506.7	1510.2	1510.2
10°	1495.9	1495.9	1495.9	1499.5	1499.5
12.5°	1485.2	1485.2	1485.2	1488.8	1492.4
15°	1474.5	1470.9	1474.5	1478.1	1485.2
17.5°	1460.2	1463.8	1463.8	1470.9	1478.1
20°	1449.5	1449.5	1449.5	1460.2	1467.4
22.5°	1431.7	1431.7	1438.8	1446.0	1453.1
25°	1410.3	1413.8	1424.5	1428.1	1431.7
27.5°	1378.1	1388.8	1403.1	1406.7	1403.1
30°	1338.8	1353.1	1378.1	1374.6	1371.0
32.5°	1296.0	1313.9	1349.6	1338.8	1328.1
35°	1242.5	1267.4	1310.3	1292.4	1274.6
37.5°	1185.3	1217.5	1260.3	1242.5	1217.5
40°	1117.5	1156.8	1206.7	1181.8	1153.2
42.5°	1049.7	1092.5	1146.1	1113.9	1078.2
45°	974.7	1021.1	1078.2	1046.1	1003.2
47.5°	903.3	949.7	1006.8	967.5	924.7
50°	828.3	871.1	931.8	889.0	846.2
52.5°	735.5	792.6	853.3	806.9	756.9
55°	653.4	703.3	774.7	717.6	671.2
57.5°	514.1	614.1	692.6	624.8	528.4
60°	382.0	478.4	606.9	492.7	392.7
62.5°	264.2	353.5	521.3	357.0	267.8
65°	182.1	239.2	424.9	242.8	182.1
67.5°	135.7	160.7	285.6	160.7	135.7
70°	110.7	117.8	167.8	117.8	107.1
72.5°	82.1	92.8	92.8	92.8	85.7
75°	50.0	60.7	57.1	60.7	53.6
77.5°	21.4	28.6	35.7	32.1	21.4
80°	14.3	14.3	17.9	14.3	14.3
82.5°	10.7	10.7	10.7	10.7	10.7
85°	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)