

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: P252907

Luminaire Tested: **PRS440D010-S4M24-44SWDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS440D010-S4M24-44SWDMW
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" 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: 3953.1 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

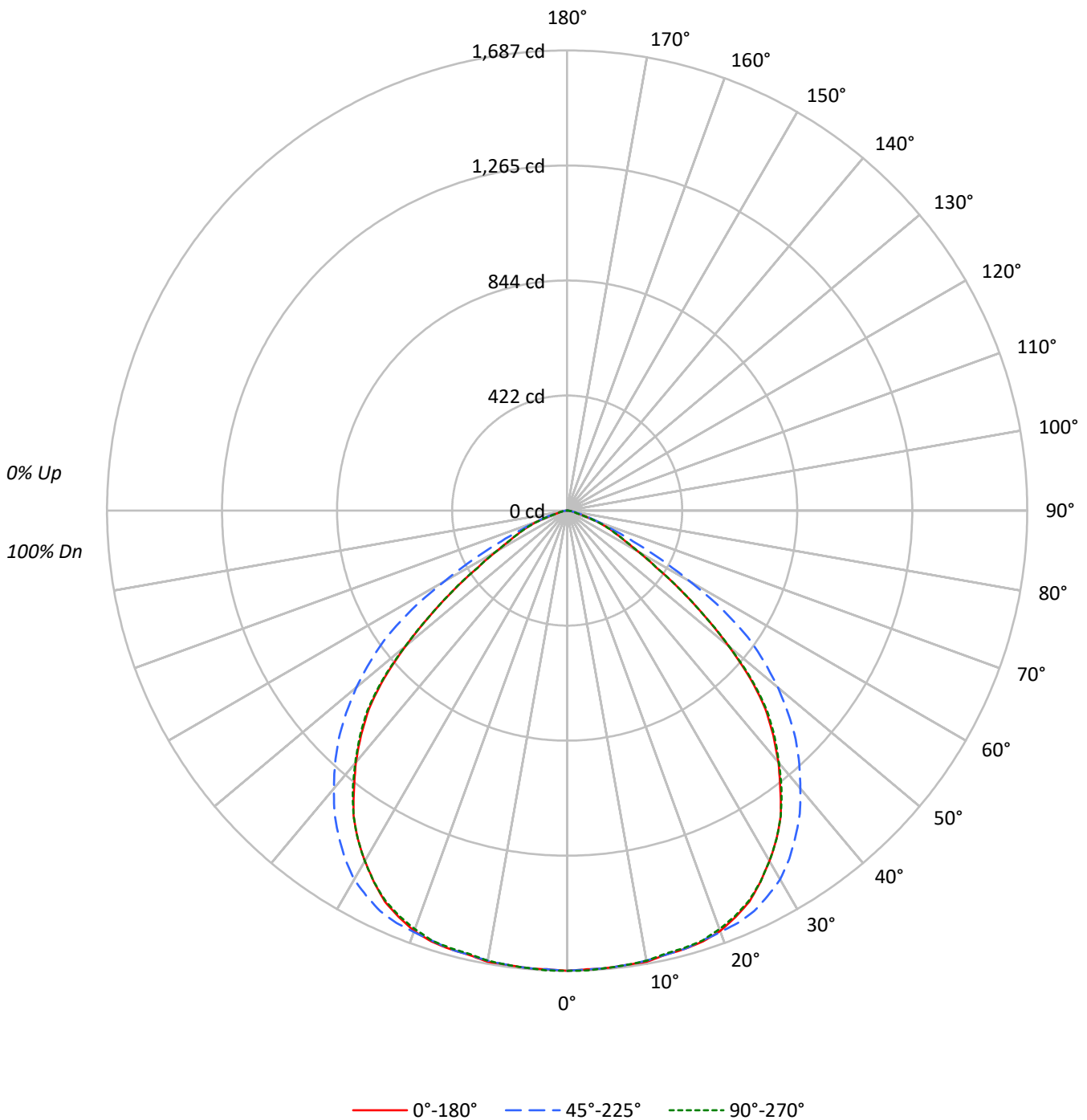
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	61	59
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	129152	129152	129152
5°	129345	129345	129345
10°	130538	130227	130227
15°	131845	131845	131528
20°	133604	133921	132968
25°	133559	136870	133221
30°	131101	138030	131101
35°	127595	136398	127595
40°	120374	132914	120764
45°	111290	128275	112135
50°	92049	120093	92514
55°	67552	107867	68073
60°	45650	79896	46248
65°	34829	48322	34829
70°	25468	27214	24595
75°	10440	15083	10440
80°	8640	8640	8640
85°	6850	6850	6850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	4.1
10°-20°	470.2	11.9
20°-30°	734.4	18.6
30°-40°	878.5	22.2
40°-50°	844.3	21.4
50°-60°	567.1	14.3
60°-70°	231.5	5.9
70°-80°	57.5	1.5
80°-90°	9.1	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°	1365.1	34.5
0°-40°	2243.5	56.8
0°-60°	3654.9	92.5
0°-90°	3953.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3953.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1683	1683	1683	1683	1683	160
15°	1664	1664	1664	1660	1660	471
25°	1581	1597	1621	1593	1577	726
35°	1366	1405	1460	1409	1366	848
45°	1028	1103	1185	1107	1036	779
55°	506	612	808	616	510	459
65°	192	216	267	216	192	194
75°	35	39	51	39	35	52
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.3	1687.3	1687.3	1687.3	1687.3
2.5°	1683.4	1683.4	1683.4	1687.3	1687.3
5°	1683.4	1683.4	1683.4	1683.4	1683.4
7.5°	1679.5	1679.5	1679.5	1679.5	1679.5
10°	1679.5	1675.5	1675.5	1675.5	1675.5
12.5°	1667.7	1667.7	1667.7	1667.7	1663.8
15°	1663.8	1663.8	1663.8	1659.8	1659.8
17.5°	1655.9	1655.9	1652.0	1652.0	1652.0
20°	1640.2	1644.1	1644.1	1640.2	1632.4
22.5°	1612.8	1624.5	1636.3	1620.6	1608.8
25°	1581.4	1597.1	1620.6	1593.1	1577.4
27.5°	1534.3	1557.8	1593.1	1557.8	1534.3
30°	1483.3	1514.7	1561.7	1514.7	1483.3
32.5°	1428.3	1463.6	1514.7	1463.6	1428.3
35°	1365.5	1404.8	1459.7	1408.7	1365.5
37.5°	1283.1	1338.1	1400.9	1345.9	1291.0
40°	1204.7	1263.5	1330.2	1267.4	1208.6
42.5°	1118.3	1185.0	1259.6	1189.0	1126.2
45°	1028.1	1102.6	1185.0	1106.6	1035.9
47.5°	910.4	1000.6	1098.7	1012.4	918.2
50°	773.0	886.8	1008.5	894.7	776.9
52.5°	635.7	745.6	910.4	753.4	635.7
55°	506.2	612.1	808.3	616.1	510.1
57.5°	388.5	482.6	674.9	490.5	388.5
60°	298.2	368.9	521.9	372.8	302.1
62.5°	235.4	278.6	384.5	274.7	235.4
65°	192.3	215.8	266.8	215.8	192.3
67.5°	153.0	168.7	176.6	168.7	153.0
70°	113.8	129.5	121.6	129.5	109.9
72.5°	66.7	82.4	82.4	82.4	62.8
75°	35.3	39.2	51.0	39.2	35.3
77.5°	27.5	27.5	31.4	27.5	27.5
80°	19.6	19.6	19.6	19.6	19.6
82.5°	11.8	11.8	11.8	11.8	11.8
85°	7.8	7.8	7.8	7.8	7.8
87.5°	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)