

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: METALUX

Report Number: P293370

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4149.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

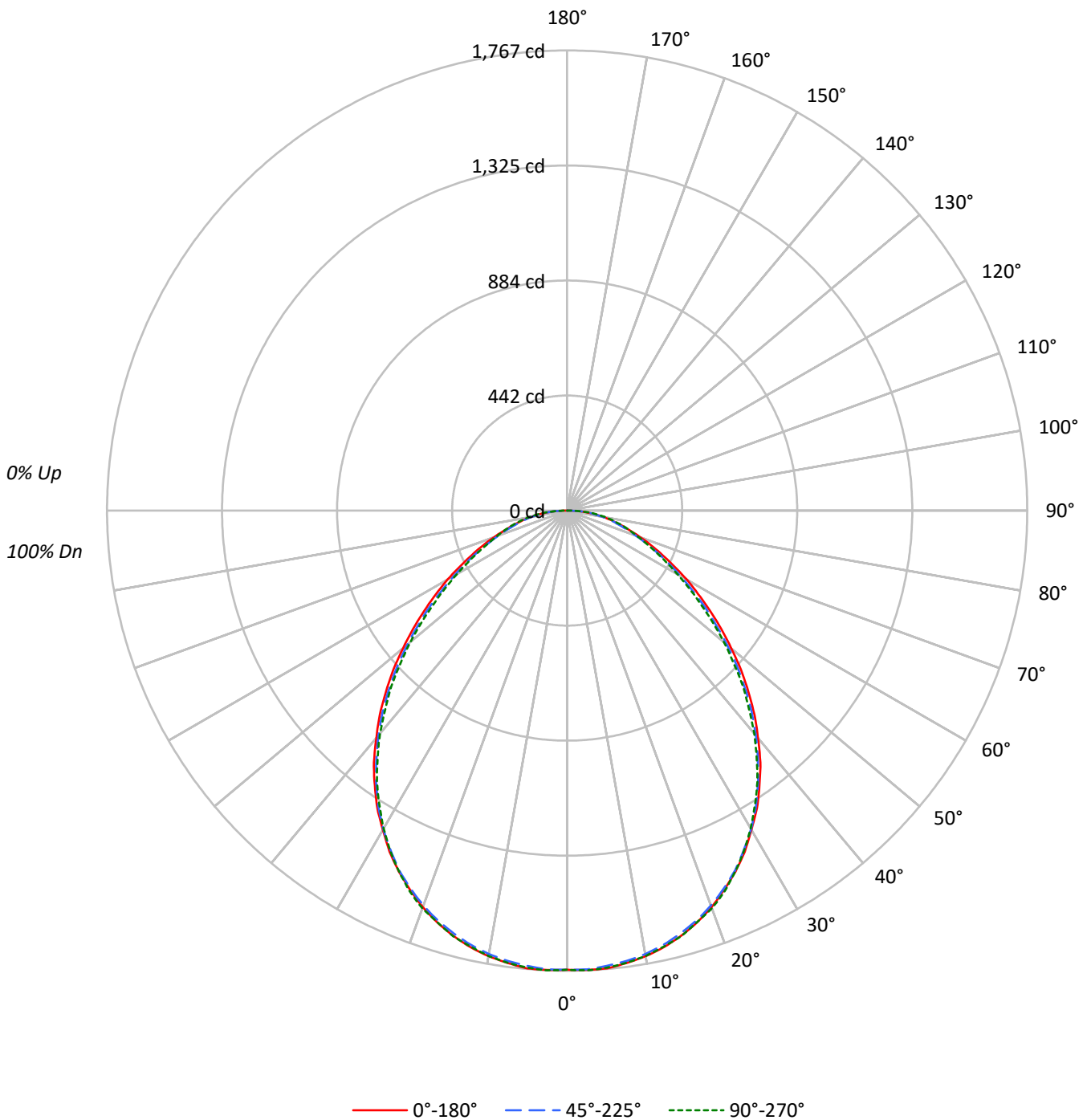
Input Watts (W): 32.922
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2373	2373	2373
5°	2383	2370	2380
10°	2374	2362	2373
15°	2355	2342	2357
20°	2321	2311	2328
25°	2270	2264	2269
30°	2199	2195	2189
35°	2116	2099	2091
40°	2002	1980	1964
45°	1873	1839	1816
50°	1721	1675	1647
55°	1570	1512	1468
60°	1426	1349	1314
65°	1284	1212	1191
70°	1176	1100	1130
75°	1099	1049	1126
80°	1090	1070	1176
85°	1112	1121	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	4.0
10°-20°	474.5	11.4
20°-30°	700.9	16.9
30°-40°	796.9	19.2
40°-50°	744.2	17.9
50°-60°	578.7	13.9
60°-70°	384.0	9.3
70°-80°	222.2	5.4
80°-90°	80.8	1.9
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°	1342.2	32.4
0°-40°	2139.1	51.6
0°-60°	3462.0	83.4
0°-90°	4149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1765	1756	1755	1758	1762	167
15°	1691	1682	1682	1681	1692	476
25°	1529	1523	1525	1522	1529	703
35°	1288	1282	1278	1269	1273	804
45°	984	977	966	954	955	759
55°	669	660	645	628	626	600
65°	403	391	381	374	374	403
75°	211	206	202	211	217	226
85°	72	71	73	82	83	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.3	1763.3	1763.3	1763.3	1763.3
2.5°	1765.9	1760.7	1763.3	1761.4	1767.2
5°	1764.6	1755.5	1754.9	1758.1	1762.0
7.5°	1752.3	1742.6	1744.5	1744.5	1751.0
10°	1737.4	1727.7	1729.0	1729.6	1736.7
12.5°	1717.3	1707.6	1708.2	1707.6	1714.7
15°	1690.7	1682.3	1681.6	1681.0	1692.0
17.5°	1658.3	1646.6	1650.5	1651.1	1657.0
20°	1620.7	1611.6	1614.2	1613.5	1625.8
22.5°	1575.9	1569.4	1571.4	1570.1	1581.7
25°	1529.2	1522.7	1525.3	1522.1	1528.6
27.5°	1476.7	1472.1	1469.5	1467.6	1472.1
30°	1415.1	1412.5	1412.5	1404.0	1409.2
32.5°	1356.7	1348.3	1348.3	1345.0	1341.8
35°	1288.0	1281.5	1278.2	1269.2	1273.0
37.5°	1219.2	1204.3	1203.0	1195.9	1195.9
40°	1140.1	1131.7	1127.1	1119.3	1118.0
42.5°	1064.9	1056.4	1048.7	1035.7	1033.1
45°	984.5	976.7	966.3	954.0	954.6
47.5°	904.7	893.7	883.9	869.0	867.1
50°	822.3	814.5	800.3	787.3	786.7
52.5°	745.1	732.8	719.9	704.3	704.3
55°	669.3	659.5	644.6	627.8	625.8
57.5°	596.6	587.6	570.7	558.4	555.1
60°	529.8	516.9	501.3	490.9	488.3
62.5°	463.0	451.4	439.7	429.3	428.7
65°	403.4	391.1	380.7	373.5	374.2
67.5°	349.6	339.2	327.5	325.6	326.2
70°	299.0	287.9	279.5	284.1	287.3
72.5°	251.0	245.1	239.3	245.8	250.3
75°	211.4	206.2	201.7	210.8	216.6
77.5°	175.1	171.2	170.6	178.3	183.5
80°	140.7	136.2	138.1	147.2	151.8
82.5°	107.0	103.8	104.4	115.4	118.7
85°	72.0	70.7	72.6	82.4	83.0
87.5°	38.3	38.3	39.6	45.4	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)