

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: P293308

Luminaire Tested: **24GR-LD5-48-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293308
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-L93050-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: 4122.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

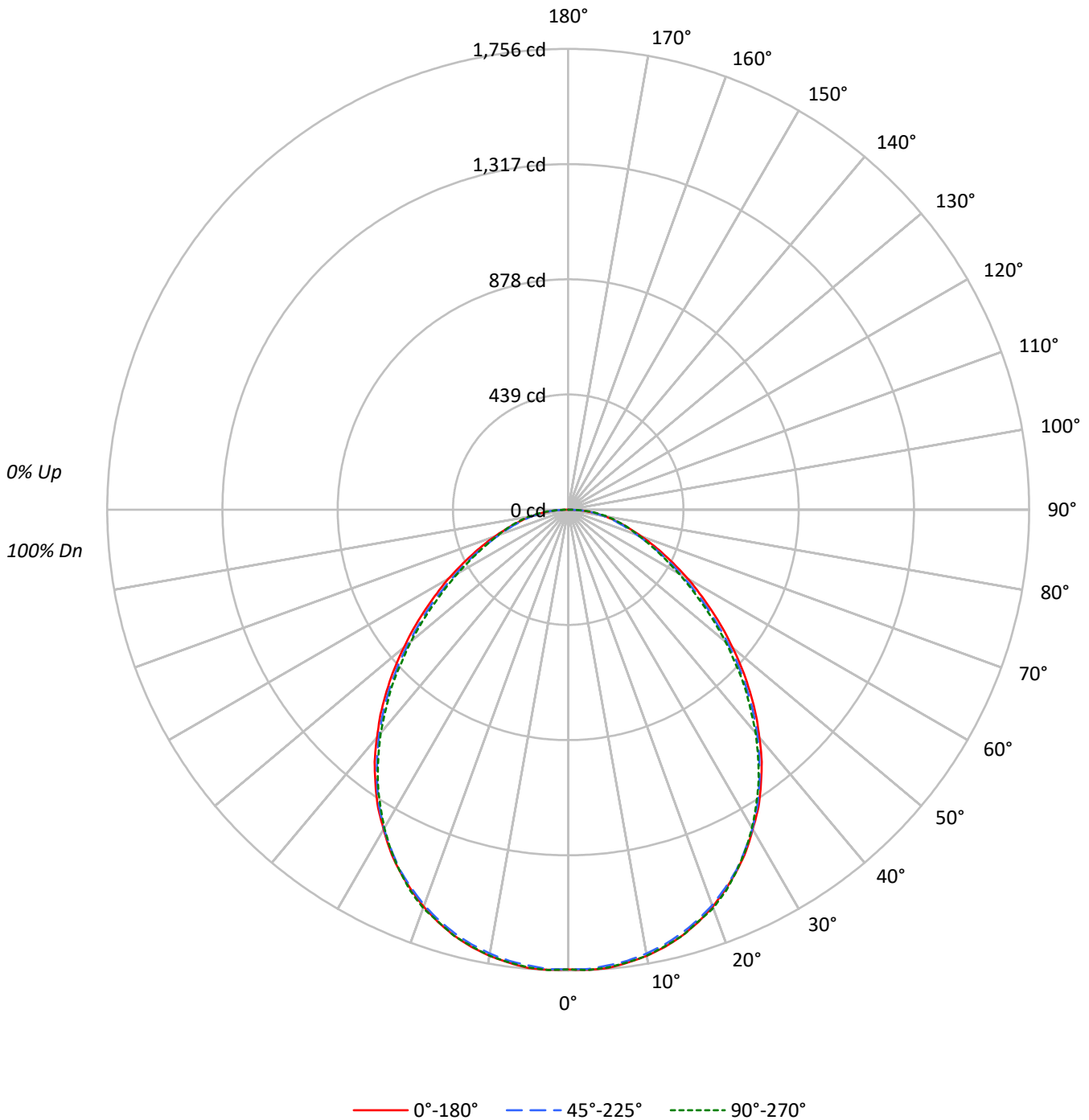
Input Watts (W): 33.452751
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	73	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°	2357	2357	2357
5°	2368	2355	2364
10°	2358	2347	2357
15°	2340	2327	2342
20°	2305	2296	2313
25°	2256	2250	2254
30°	2184	2180	2175
35°	2102	2086	2077
40°	1989	1967	1951
45°	1861	1827	1805
50°	1710	1664	1636
55°	1560	1502	1458
60°	1417	1340	1306
65°	1276	1204	1184
70°	1168	1092	1123
75°	1092	1042	1119
80°	1083	1063	1168
85°	1104	1115	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	4.0
10°-20°	471.4	11.4
20°-30°	696.3	16.9
30°-40°	791.7	19.2
40°-50°	739.3	17.9
50°-60°	574.9	13.9
60°-70°	381.5	9.3
70°-80°	220.8	5.4
80°-90°	80.3	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°	1333.5	32.4
0°-40°	2125.2	51.6
0°-60°	3439.5	83.4
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1753	1744	1744	1747	1751	166
15°	1680	1671	1671	1670	1681	473
25°	1519	1513	1515	1512	1519	699
35°	1280	1273	1270	1261	1265	799
45°	978	970	960	948	948	754
55°	665	655	640	624	622	596
65°	401	388	378	371	372	401
75°	210	205	200	209	215	225
85°	72	70	72	82	82	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.8	1751.8	1751.8	1751.8	1751.8
2.5°	1754.4	1749.3	1751.8	1749.9	1755.7
5°	1753.1	1744.1	1743.5	1746.7	1750.6
7.5°	1740.9	1731.2	1733.2	1733.2	1739.6
10°	1726.1	1716.4	1717.7	1718.3	1725.4
12.5°	1706.1	1696.4	1697.1	1696.4	1703.5
15°	1679.7	1671.3	1670.7	1670.0	1681.0
17.5°	1647.5	1635.9	1639.7	1640.4	1646.2
20°	1610.1	1601.1	1603.7	1603.0	1615.3
22.5°	1565.6	1559.2	1561.1	1559.8	1571.4
25°	1519.3	1512.8	1515.4	1512.2	1518.6
27.5°	1467.1	1462.6	1460.0	1458.0	1462.6
30°	1405.9	1403.3	1403.3	1394.9	1400.1
32.5°	1347.9	1339.5	1339.5	1336.3	1333.1
35°	1279.6	1273.1	1269.9	1260.9	1264.8
37.5°	1211.3	1196.5	1195.2	1188.1	1188.1
40°	1132.7	1124.3	1119.8	1112.1	1110.8
42.5°	1057.9	1049.6	1041.8	1028.9	1026.4
45°	978.0	970.3	960.0	947.8	948.4
47.5°	898.8	887.8	878.2	863.4	861.4
50°	817.0	809.2	795.1	782.2	781.5
52.5°	740.3	728.1	715.2	699.7	699.7
55°	664.9	655.3	640.4	623.7	621.7
57.5°	592.8	583.7	567.0	554.7	551.5
60°	526.4	513.5	498.0	487.7	485.2
62.5°	460.0	448.4	436.8	426.5	425.9
65°	400.8	388.5	378.2	371.1	371.8
67.5°	347.3	337.0	325.4	323.4	324.1
70°	297.0	286.1	277.7	282.2	285.4
72.5°	249.3	243.5	237.7	244.2	248.7
75°	210.0	204.9	200.4	209.4	215.2
77.5°	174.0	170.1	169.5	177.2	182.3
80°	139.8	135.3	137.2	146.3	150.8
82.5°	106.3	103.1	103.7	114.7	117.9
85°	71.5	70.2	72.2	81.8	82.5
87.5°	38.0	38.0	39.3	45.1	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)