

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: P293121

Luminaire Tested: **24GR-LD5-48-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F1-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4482.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

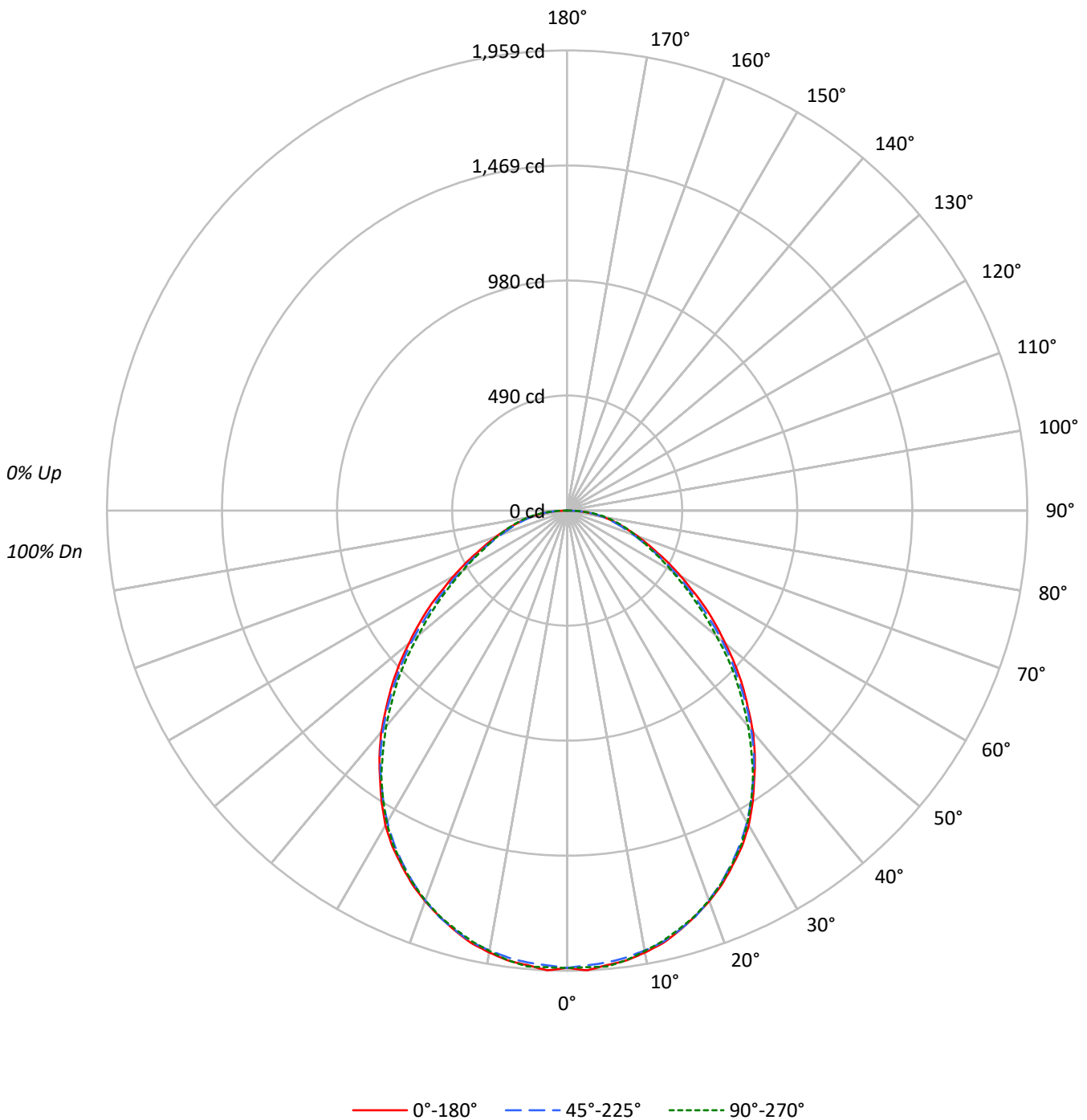
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2620	2620	2620
5°	2623	2608	2631
10°	2609	2598	2601
15°	2577	2574	2568
20°	2533	2528	2528
25°	2475	2461	2466
30°	2403	2378	2386
35°	2282	2272	2266
40°	2161	2142	2104
45°	2009	1974	1935
50°	1840	1800	1732
55°	1681	1605	1551
60°	1498	1425	1388
65°	1348	1277	1260
70°	1251	1175	1222
75°	1197	1144	1240
80°	1196	1196	1325
85°	1241	1257	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	4.1
10°-20°	520.3	11.6
20°-30°	763.6	17.0
30°-40°	863.3	19.3
40°-50°	797.9	17.8
50°-60°	614.8	13.7
60°-70°	407.1	9.1
70°-80°	242.3	5.4
80°-90°	88.8	2.0
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°	1467.8	32.7
0°-40°	2331.2	52.0
0°-60°	3743.8	83.5
0°-90°	4482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1942	1942	1931	1932	1948	185
15°	1850	1846	1848	1847	1843	521
25°	1667	1662	1658	1656	1661	767
35°	1389	1388	1383	1376	1379	869
45°	1056	1048	1037	1019	1017	813
55°	716	702	684	666	661	639
65°	423	417	401	398	396	424
75°	230	225	220	230	238	245
85°	80	76	81	90	91	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.9	1946.9	1946.9	1946.9	1946.9
2.5°	1958.9	1948.7	1937.6	1937.6	1946.0
5°	1942.3	1942.3	1931.2	1932.1	1947.8
7.5°	1932.1	1926.5	1919.1	1919.1	1931.2
10°	1909.9	1905.3	1901.6	1899.7	1903.4
12.5°	1885.9	1878.5	1881.2	1878.5	1877.5
15°	1849.8	1846.1	1848.0	1847.0	1843.3
17.5°	1811.0	1809.1	1812.8	1806.4	1809.1
20°	1769.4	1763.8	1765.7	1762.0	1765.7
22.5°	1722.2	1718.5	1713.9	1709.3	1716.7
25°	1666.8	1662.1	1657.5	1655.7	1661.2
27.5°	1611.3	1603.9	1597.4	1595.6	1603.9
30°	1546.6	1538.3	1530.9	1529.0	1535.5
32.5°	1469.9	1468.0	1458.8	1455.1	1457.8
35°	1389.4	1387.6	1383.0	1376.5	1379.3
37.5°	1312.7	1311.8	1305.3	1294.2	1286.8
40°	1230.4	1224.0	1219.3	1203.6	1198.1
42.5°	1139.8	1138.0	1129.7	1112.1	1105.6
45°	1055.7	1048.3	1037.2	1018.7	1016.9
47.5°	968.8	958.6	948.5	925.4	924.4
50°	879.1	871.7	859.7	836.6	827.4
52.5°	795.9	785.8	769.1	746.9	742.3
55°	716.4	701.7	684.1	665.6	661.0
57.5°	631.4	624.9	603.7	588.9	583.3
60°	556.5	551.0	529.7	515.8	515.8
62.5°	489.0	480.7	462.2	453.0	453.0
65°	423.4	416.9	401.2	397.5	395.7
67.5°	367.0	358.7	347.6	346.7	351.3
70°	318.0	307.8	298.6	307.8	310.6
72.5°	271.8	265.3	257.0	269.0	274.6
75°	230.2	224.6	220.0	230.2	238.5
77.5°	192.3	186.7	186.7	197.8	205.2
80°	154.4	150.7	154.4	163.6	171.0
82.5°	118.3	115.6	120.2	129.4	134.0
85°	80.4	75.8	81.4	89.7	90.6
87.5°	37.9	37.0	40.7	46.2	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)