

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: P294398

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5055.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

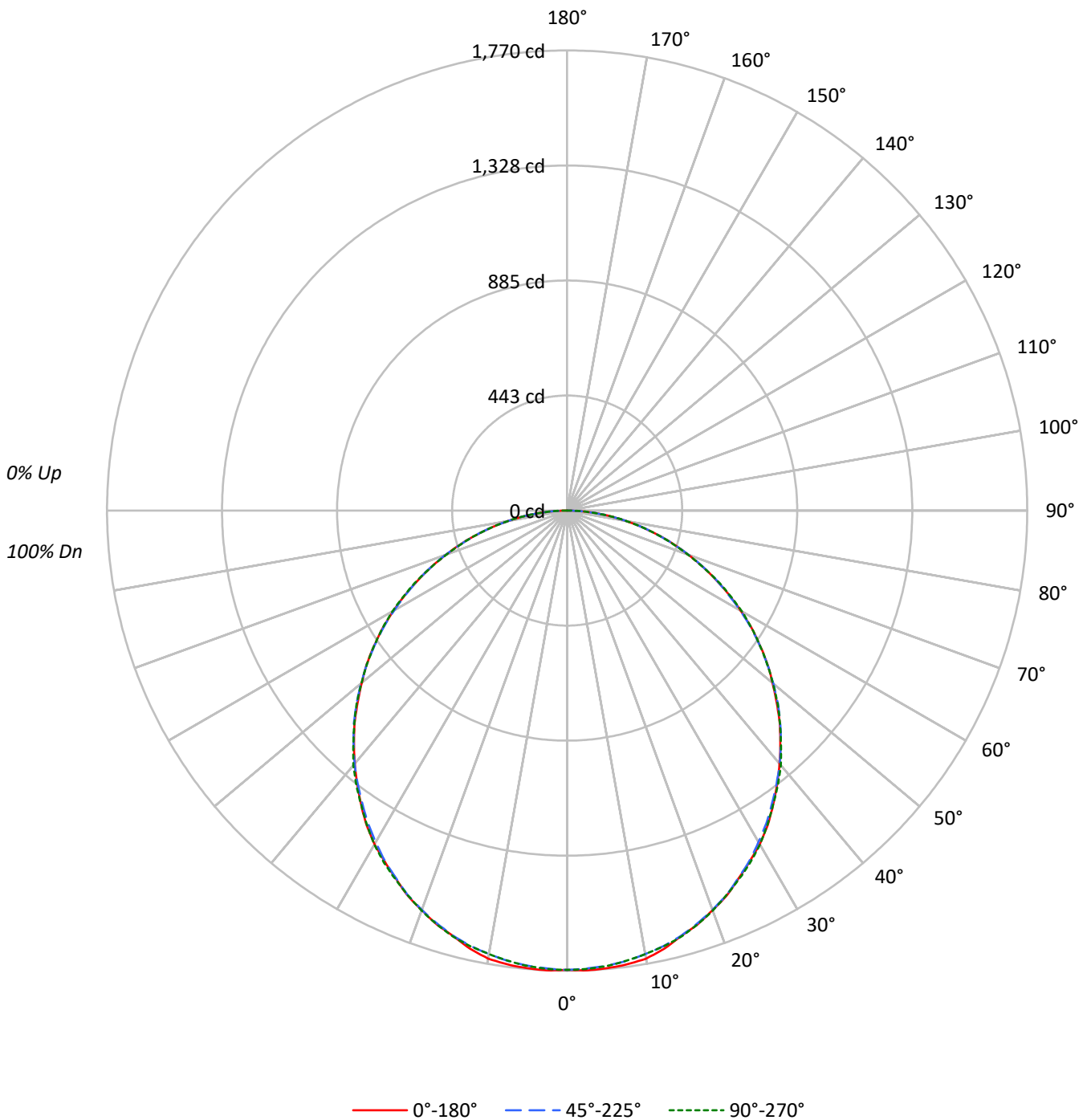
Input Watts (W): 46.779
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2377	2377	2377
5°	2386	2373	2375
10°	2391	2367	2367
15°	2360	2358	2363
20°	2342	2340	2345
25°	2317	2315	2322
30°	2302	2287	2304
35°	2269	2258	2269
40°	2232	2234	2247
45°	2200	2207	2203
50°	2159	2166	2161
55°	2125	2120	2125
60°	2076	2069	2088
65°	2011	2019	2027
70°	1946	1956	1942
75°	1878	1878	1878
80°	1774	1774	1792
85°	1638	1656	1601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.3
10°-20°	477.6	9.4
20°-30°	719.7	14.2
30°-40°	862.0	17.1
40°-50°	892.3	17.7
50°-60°	809.0	16.0
60°-70°	627.2	12.4
70°-80°	381.5	7.5
80°-90°	118.7	2.3
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°	1364.3	27.0
0°-40°	2226.3	44.0
0°-60°	3927.6	77.7
0°-90°	5055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1767	1756	1757	1755	1758	168
15°	1694	1695	1693	1687	1696	479
25°	1560	1560	1559	1564	1564	720
35°	1382	1372	1375	1380	1382	864
45°	1156	1159	1160	1155	1158	891
55°	906	901	904	907	906	810
65°	632	635	634	632	637	627
75°	361	360	361	360	361	382
85°	106	105	107	106	104	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.8	1766.8	1766.8	1766.8	1766.8
2.5°	1770.4	1763.2	1763.2	1760.8	1764.4
5°	1766.8	1756.1	1757.2	1754.9	1758.4
7.5°	1760.8	1746.5	1747.7	1745.3	1746.5
10°	1750.1	1733.4	1732.2	1731.0	1732.2
12.5°	1726.2	1716.7	1715.5	1713.1	1716.7
15°	1694.1	1695.3	1692.9	1686.9	1696.4
17.5°	1669.0	1667.8	1665.4	1659.5	1669.0
20°	1635.6	1636.8	1634.5	1632.1	1638.0
22.5°	1603.5	1599.9	1601.1	1599.9	1601.1
25°	1560.5	1560.5	1559.3	1564.1	1564.1
27.5°	1521.2	1516.4	1518.8	1523.6	1526.0
30°	1481.9	1469.9	1472.3	1477.1	1483.0
32.5°	1435.4	1423.4	1425.8	1430.6	1433.0
35°	1381.7	1372.2	1374.6	1380.5	1381.7
37.5°	1326.9	1320.9	1323.3	1328.1	1331.6
40°	1270.8	1268.5	1272.0	1270.8	1279.2
42.5°	1213.6	1212.4	1216.0	1216.0	1217.2
45°	1156.4	1158.8	1160.0	1155.2	1157.6
47.5°	1093.2	1094.4	1099.2	1096.8	1098.0
50°	1031.2	1030.0	1034.8	1036.0	1032.4
52.5°	971.6	965.6	970.4	972.8	970.4
55°	906.0	901.3	903.7	907.2	906.0
57.5°	841.7	836.9	838.1	844.0	841.7
60°	771.3	770.1	768.9	773.7	776.1
62.5°	702.2	701.0	698.6	703.4	705.8
65°	631.8	635.4	634.2	631.8	636.6
67.5°	565.1	568.7	565.1	562.7	562.7
70°	494.7	498.3	497.1	494.7	493.6
72.5°	429.2	429.2	426.8	425.6	426.8
75°	361.2	360.0	361.2	360.0	361.2
77.5°	294.5	295.7	295.7	295.7	294.5
80°	228.9	228.9	228.9	230.1	231.3
82.5°	168.1	164.5	168.1	165.7	166.9
85°	106.1	104.9	107.3	106.1	103.7
87.5°	47.7	48.9	48.9	50.1	50.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)