

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: P294199

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294199
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

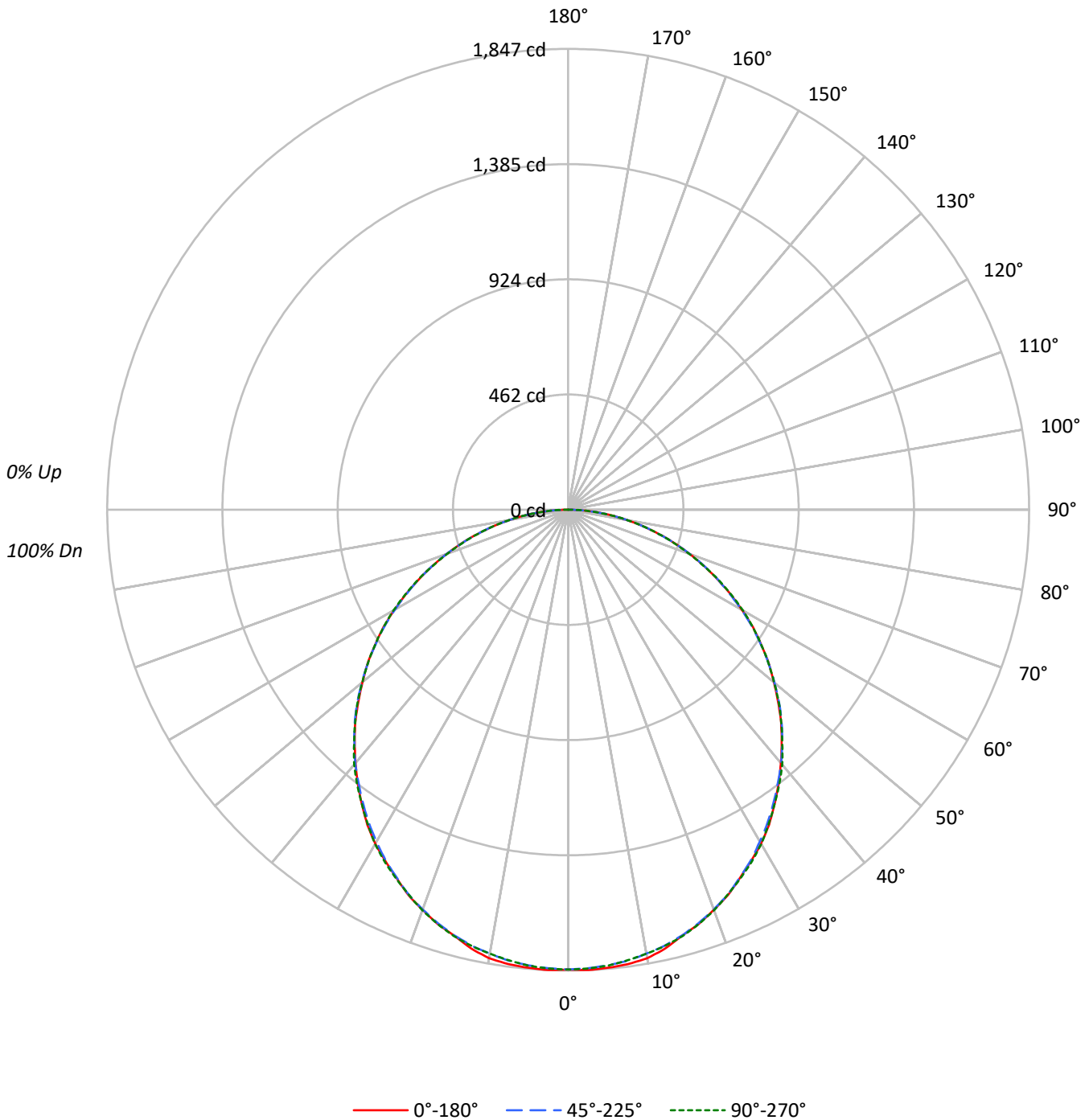
Input Watts (W): 45.849
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2480	2480	2480
5°	2489	2476	2477
10°	2494	2469	2469
15°	2461	2460	2465
20°	2443	2441	2447
25°	2417	2415	2422
30°	2402	2386	2403
35°	2367	2355	2367
40°	2328	2331	2344
45°	2295	2302	2298
50°	2252	2259	2254
55°	2217	2211	2217
60°	2165	2158	2179
65°	2098	2106	2114
70°	2030	2040	2025
75°	1959	1959	1959
80°	1850	1850	1870
85°	1709	1727	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	3.3
10°-20°	498.2	9.4
20°-30°	750.7	14.2
30°-40°	899.2	17.1
40°-50°	930.8	17.7
50°-60°	843.9	16.0
60°-70°	654.3	12.4
70°-80°	397.9	7.5
80°-90°	123.8	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°	1423.2	27.0
0°-40°	2322.3	44.0
0°-60°	4097.0	77.7
0°-90°	5273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1843	1832	1833	1830	1834	175
15°	1767	1768	1766	1760	1770	500
25°	1628	1628	1627	1632	1632	751
35°	1441	1431	1434	1440	1441	902
45°	1206	1209	1210	1205	1208	929
55°	945	940	943	946	945	845
65°	659	663	662	659	664	654
75°	377	376	377	376	377	398
85°	111	109	112	111	108	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.0	1843.0	1843.0	1843.0	1843.0
2.5°	1846.7	1839.2	1839.2	1836.8	1840.5
5°	1843.0	1831.8	1833.0	1830.5	1834.3
7.5°	1836.8	1821.8	1823.1	1820.6	1821.8
10°	1825.6	1808.2	1806.9	1805.7	1806.9
12.5°	1800.7	1790.7	1789.5	1787.0	1790.7
15°	1767.1	1768.4	1765.9	1759.7	1769.6
17.5°	1741.0	1739.8	1737.3	1731.1	1741.0
20°	1706.2	1707.4	1704.9	1702.5	1708.7
22.5°	1672.6	1668.9	1670.1	1668.9	1670.1
25°	1627.8	1627.8	1626.6	1631.6	1631.6
27.5°	1586.8	1581.8	1584.3	1589.3	1591.8
30°	1545.8	1533.3	1535.8	1540.8	1547.0
32.5°	1497.3	1484.8	1487.3	1492.3	1494.8
35°	1441.3	1431.4	1433.8	1440.1	1441.3
37.5°	1384.1	1377.9	1380.4	1385.3	1389.1
40°	1325.6	1323.2	1326.9	1325.6	1334.4
42.5°	1266.0	1264.7	1268.4	1268.4	1269.7
45°	1206.3	1208.8	1210.0	1205.0	1207.5
47.5°	1140.4	1141.6	1146.6	1144.1	1145.3
50°	1075.7	1074.4	1079.4	1080.7	1076.9
52.5°	1013.5	1007.3	1012.3	1014.8	1012.3
55°	945.1	940.1	942.6	946.4	945.1
57.5°	878.0	873.0	874.2	880.4	878.0
60°	804.6	803.3	802.1	807.1	809.6
62.5°	732.5	731.2	728.7	733.7	736.2
65°	659.1	662.8	661.6	659.1	664.1
67.5°	589.5	593.2	589.5	587.0	587.0
70°	516.1	519.8	518.6	516.1	514.8
72.5°	447.7	447.7	445.2	444.0	445.2
75°	376.8	375.6	376.8	375.6	376.8
77.5°	307.2	308.4	308.4	308.4	307.2
80°	238.8	238.8	238.8	240.0	241.3
82.5°	175.3	171.6	175.3	172.9	174.1
85°	110.7	109.4	111.9	110.7	108.2
87.5°	49.7	51.0	51.0	52.2	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)