

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: P294201

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294201
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5859.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

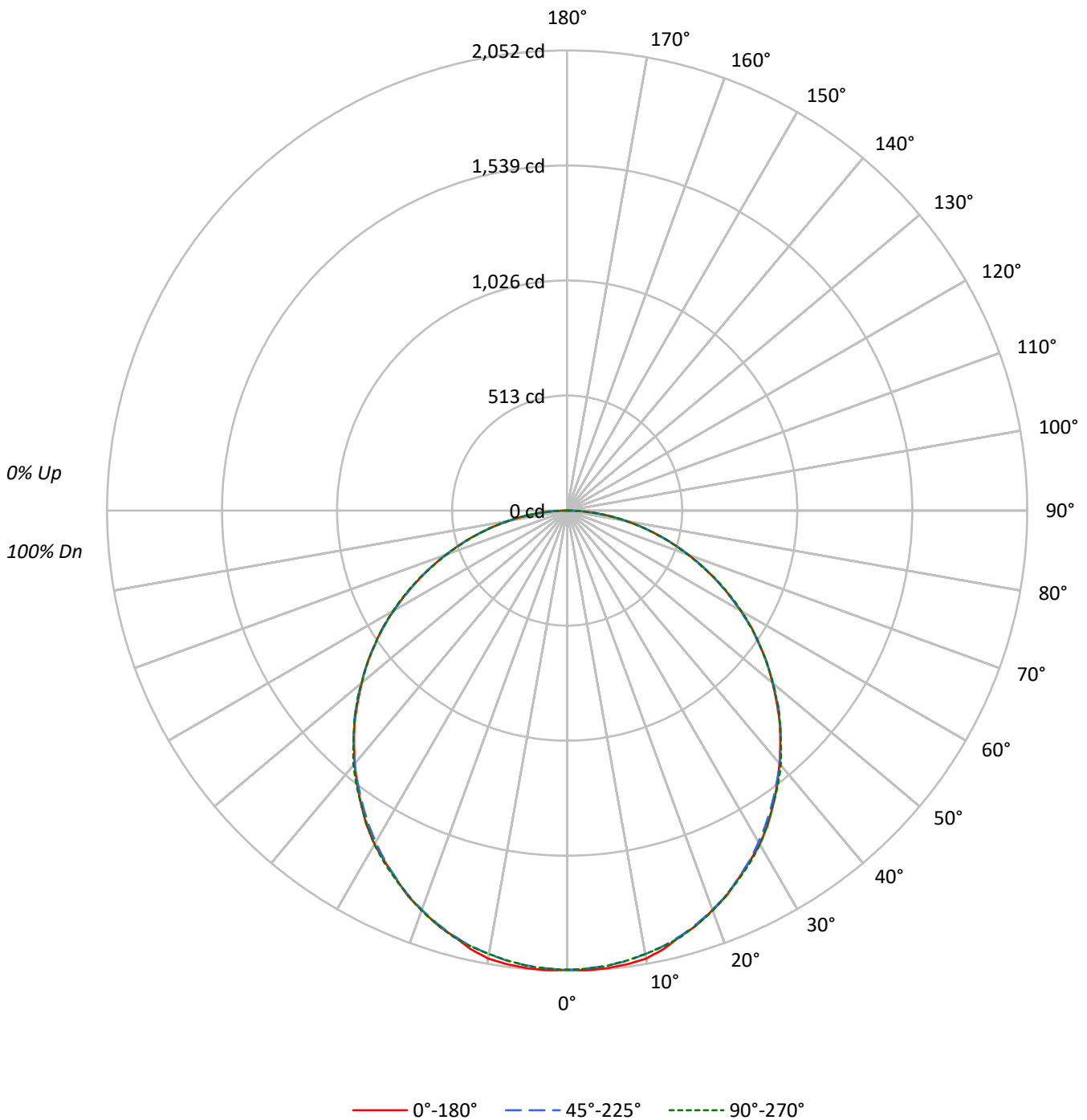
Input Watts (W): 46.965
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2755	2755	2755
5°	2766	2751	2753
10°	2771	2743	2743
15°	2735	2733	2739
20°	2714	2712	2718
25°	2685	2683	2691
30°	2668	2651	2671
35°	2631	2617	2631
40°	2587	2590	2604
45°	2550	2558	2553
50°	2502	2511	2505
55°	2463	2457	2463
60°	2406	2398	2421
65°	2331	2340	2349
70°	2256	2267	2251
75°	2177	2177	2177
80°	2056	2056	2077
85°	1899	1920	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	3.3
10°-20°	553.5	9.4
20°-30°	834.2	14.2
30°-40°	999.1	17.1
40°-50°	1034.2	17.7
50°-60°	937.7	16.0
60°-70°	727.0	12.4
70°-80°	442.1	7.5
80°-90°	137.6	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°	1581.3	27.0
0°-40°	2580.4	44.0
0°-60°	4552.3	77.7
0°-90°	5859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2048	2035	2037	2034	2038	195
15°	1964	1965	1962	1955	1966	555
25°	1809	1809	1807	1813	1813	835
35°	1602	1590	1593	1600	1602	1002
45°	1340	1343	1344	1339	1342	1033
55°	1050	1045	1047	1052	1050	939
65°	732	736	735	732	738	726
75°	419	417	419	417	419	442
85°	123	122	124	123	120	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.8	2047.8	2047.8	2047.8	2047.8
2.5°	2051.9	2043.6	2043.6	2040.9	2045.0
5°	2047.8	2035.4	2036.7	2034.0	2038.1
7.5°	2040.9	2024.3	2025.7	2022.9	2024.3
10°	2028.4	2009.1	2007.7	2006.3	2007.7
12.5°	2000.8	1989.8	1988.4	1985.6	1989.8
15°	1963.5	1964.9	1962.1	1955.2	1966.3
17.5°	1934.5	1933.1	1930.3	1923.4	1934.5
20°	1895.8	1897.2	1894.4	1891.6	1898.6
22.5°	1858.5	1854.3	1855.7	1854.3	1855.7
25°	1808.7	1808.7	1807.4	1812.9	1812.9
27.5°	1763.1	1757.6	1760.4	1765.9	1768.7
30°	1717.5	1703.7	1706.5	1712.0	1718.9
32.5°	1663.7	1649.8	1652.6	1658.1	1660.9
35°	1601.5	1590.4	1593.2	1600.1	1601.5
37.5°	1537.9	1531.0	1533.8	1539.3	1543.4
40°	1473.0	1470.2	1474.4	1473.0	1482.6
42.5°	1406.6	1405.3	1409.4	1409.4	1410.8
45°	1340.3	1343.1	1344.5	1338.9	1341.7
47.5°	1267.1	1268.5	1274.0	1271.2	1272.6
50°	1195.2	1193.9	1199.4	1200.8	1196.6
52.5°	1126.1	1119.2	1124.8	1127.5	1124.8
55°	1050.1	1044.6	1047.4	1051.5	1050.1
57.5°	975.5	970.0	971.4	978.3	975.5
60°	894.0	892.6	891.2	896.8	899.5
62.5°	813.9	812.5	809.7	815.2	818.0
65°	732.3	736.5	735.1	732.3	737.9
67.5°	655.0	659.1	655.0	652.2	652.2
70°	573.4	577.6	576.2	573.4	572.1
72.5°	497.4	497.4	494.7	493.3	494.7
75°	418.7	417.3	418.7	417.3	418.7
77.5°	341.3	342.7	342.7	342.7	341.3
80°	265.3	265.3	265.3	266.7	268.1
82.5°	194.8	190.7	194.8	192.1	193.4
85°	123.0	121.6	124.4	123.0	120.2
87.5°	55.3	56.7	56.7	58.0	58.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)