

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: P294264

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294264
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-LD5-56-FGW080-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5059.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

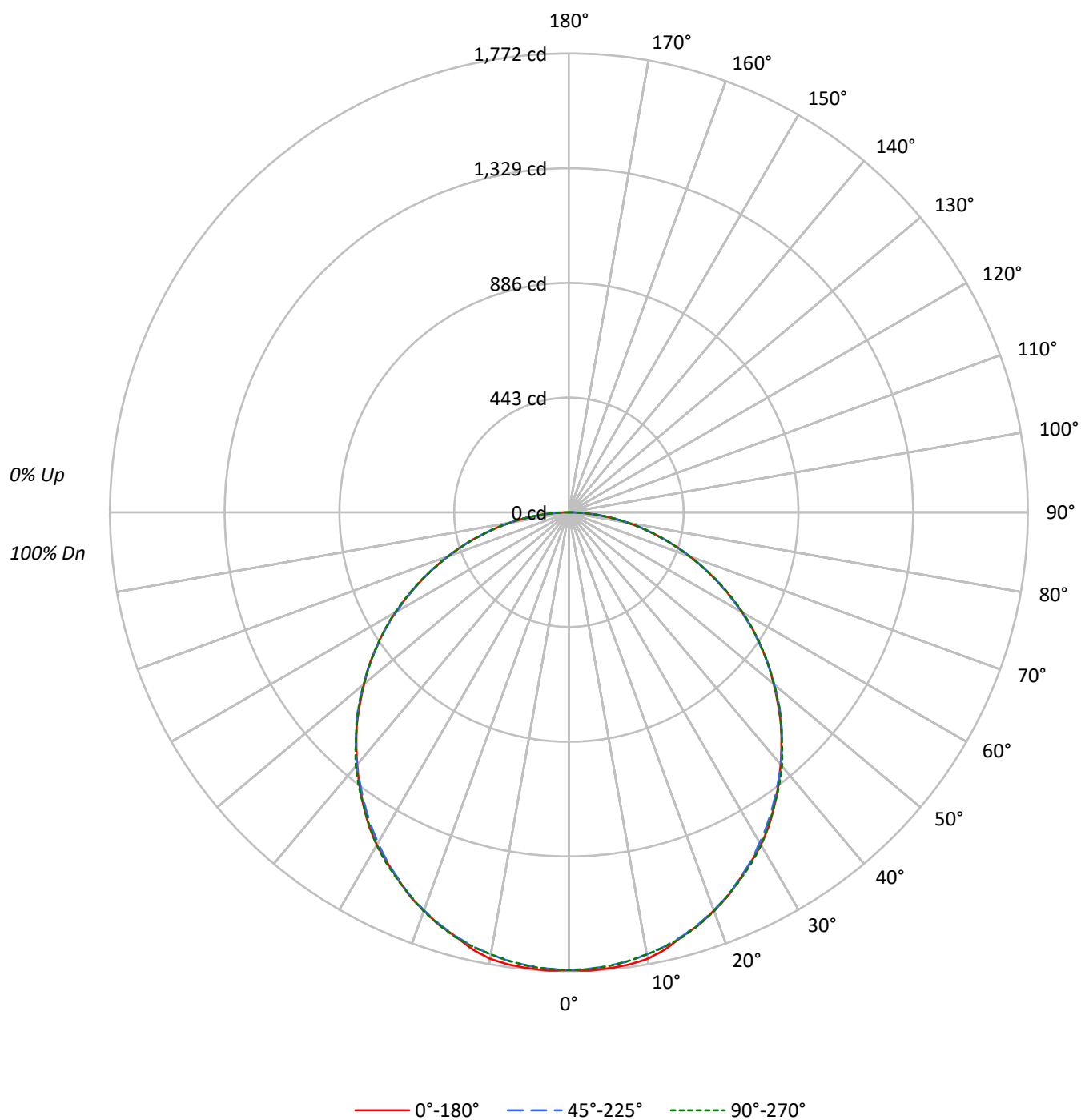
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2379	2379	2379
5°	2388	2375	2377
10°	2393	2369	2369
15°	2362	2360	2365
20°	2344	2342	2347
25°	2319	2317	2324
30°	2304	2289	2306
35°	2271	2259	2271
40°	2234	2236	2249
45°	2202	2209	2204
50°	2160	2168	2163
55°	2127	2122	2127
60°	2077	2071	2090
65°	2013	2021	2028
70°	1948	1957	1943
75°	1879	1879	1879
80°	1775	1775	1794
85°	1639	1658	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	3.3
10°-20°	477.9	9.4
20°-30°	720.3	14.2
30°-40°	862.7	17.1
40°-50°	893.0	17.7
50°-60°	809.7	16.0
60°-70°	627.7	12.4
70°-80°	381.7	7.5
80°-90°	118.8	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°	1365.4	27.0
0°-40°	2228.1	44.0
0°-60°	3930.8	77.7
0°-90°	5059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1768	1757	1759	1756	1760	168
15°	1695	1697	1694	1688	1698	479
25°	1562	1562	1561	1565	1565	721
35°	1383	1373	1376	1382	1383	865
45°	1157	1160	1161	1156	1158	892
55°	907	902	904	908	907	810
65°	632	636	635	632	637	627
75°	362	360	362	360	362	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°	1768.2	1768.2	1768.2	1768.2	1768.2
2.5°	1771.8	1764.6	1764.6	1762.2	1765.8
5°	1768.2	1757.4	1758.6	1756.2	1759.8
7.5°	1762.2	1747.9	1749.1	1746.7	1747.9
10°	1751.5	1734.8	1733.6	1732.4	1733.6
12.5°	1727.6	1718.1	1716.9	1714.5	1718.1
15°	1695.4	1696.6	1694.2	1688.2	1697.8
17.5°	1670.3	1669.2	1666.8	1660.8	1670.3
20°	1636.9	1638.1	1635.7	1633.4	1639.3
22.5°	1604.7	1601.1	1602.3	1601.1	1602.3
25°	1561.8	1561.8	1560.6	1565.4	1565.4
27.5°	1522.4	1517.6	1520.0	1524.8	1527.2
30°	1483.0	1471.1	1473.5	1478.3	1484.2
32.5°	1436.5	1424.6	1427.0	1431.7	1434.1
35°	1382.8	1373.3	1375.6	1381.6	1382.8
37.5°	1327.9	1322.0	1324.3	1329.1	1332.7
40°	1271.8	1269.5	1273.0	1271.8	1280.2
42.5°	1214.6	1213.4	1217.0	1217.0	1218.2
45°	1157.3	1159.7	1160.9	1156.1	1158.5
47.5°	1094.1	1095.3	1100.0	1097.7	1098.8
50°	1032.0	1030.8	1035.6	1036.8	1033.2
52.5°	972.4	966.4	971.2	973.6	971.2
55°	906.8	902.0	904.4	908.0	906.8
57.5°	842.3	837.6	838.8	844.7	842.3
60°	771.9	770.7	769.6	774.3	776.7
62.5°	702.7	701.5	699.2	703.9	706.3
65°	632.3	635.9	634.7	632.3	637.1
67.5°	565.5	569.1	565.5	563.1	563.1
70°	495.1	498.7	497.5	495.1	493.9
72.5°	429.5	429.5	427.1	425.9	427.1
75°	361.5	360.3	361.5	360.3	361.5
77.5°	294.7	295.9	295.9	295.9	294.7
80°	229.1	229.1	229.1	230.3	231.5
82.5°	168.2	164.6	168.2	165.8	167.0
85°	106.2	105.0	107.4	106.2	103.8
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)