

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: P294401

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294401
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5260.0 lumens
Efficiency: N/A
Efficacy: 111.1 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

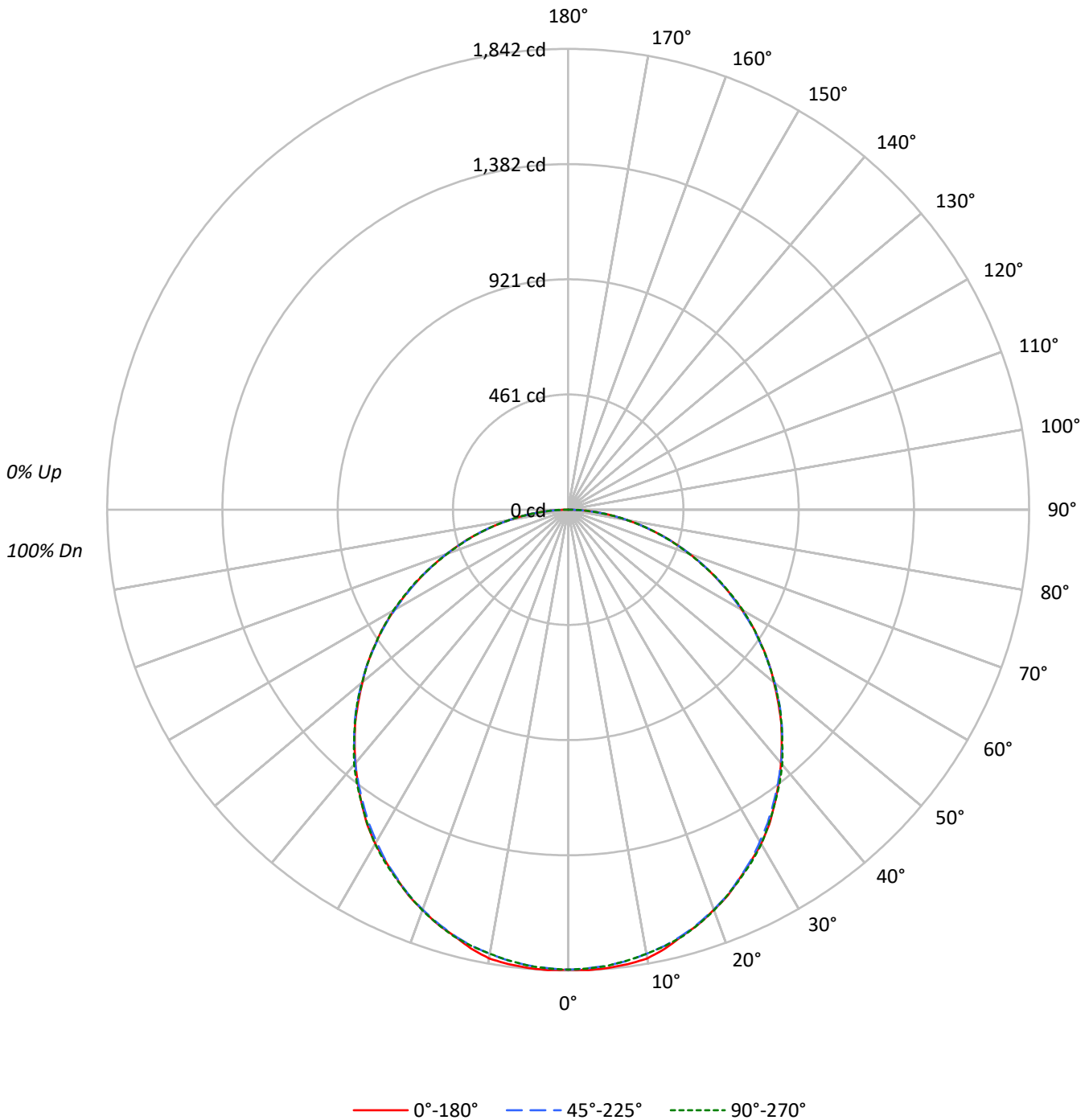
Input Watts (W): 47.337
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2474	2474	2474
5°	2483	2470	2471
10°	2488	2463	2463
15°	2455	2454	2459
20°	2437	2435	2441
25°	2411	2409	2416
30°	2396	2380	2398
35°	2361	2349	2361
40°	2323	2325	2338
45°	2290	2297	2292
50°	2246	2254	2249
55°	2212	2206	2212
60°	2160	2153	2173
65°	2093	2101	2109
70°	2025	2035	2020
75°	1954	1954	1954
80°	1846	1846	1865
85°	1704	1723	1666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	3.3
10°-20°	496.9	9.4
20°-30°	748.9	14.2
30°-40°	897.0	17.1
40°-50°	928.5	17.7
50°-60°	841.9	16.0
60°-70°	652.7	12.4
70°-80°	396.9	7.5
80°-90°	123.5	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°	1419.7	27.0
0°-40°	2316.6	44.0
0°-60°	4086.9	77.7
0°-90°	5260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1838	1827	1828	1826	1830	175
15°	1763	1764	1762	1755	1765	498
25°	1624	1624	1623	1628	1628	750
35°	1438	1428	1430	1436	1438	899
45°	1203	1206	1207	1202	1204	927
55°	943	938	940	944	943	843
65°	658	661	660	658	662	652
75°	376	375	376	375	376	397
85°	110	109	112	110	108	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.4	1838.4	1838.4	1838.4	1838.4
2.5°	1842.2	1834.7	1834.7	1832.2	1835.9
5°	1838.4	1827.3	1828.5	1826.0	1829.7
7.5°	1832.2	1817.3	1818.6	1816.1	1817.3
10°	1821.1	1803.7	1802.5	1801.2	1802.5
12.5°	1796.3	1786.3	1785.1	1782.6	1786.3
15°	1762.8	1764.0	1761.5	1755.3	1765.2
17.5°	1736.7	1735.5	1733.0	1726.8	1736.7
20°	1702.0	1703.2	1700.7	1698.3	1704.5
22.5°	1668.5	1664.8	1666.0	1664.8	1666.0
25°	1623.8	1623.8	1622.6	1627.5	1627.5
27.5°	1582.9	1577.9	1580.4	1585.4	1587.8
30°	1541.9	1529.5	1532.0	1537.0	1543.2
32.5°	1493.6	1481.2	1483.6	1488.6	1491.1
35°	1437.7	1427.8	1430.3	1436.5	1437.7
37.5°	1380.7	1374.5	1377.0	1381.9	1385.6
40°	1322.4	1319.9	1323.6	1322.4	1331.1
42.5°	1262.8	1261.6	1265.3	1265.3	1266.6
45°	1203.3	1205.8	1207.0	1202.1	1204.5
47.5°	1137.5	1138.8	1143.7	1141.3	1142.5
50°	1073.0	1071.8	1076.8	1078.0	1074.3
52.5°	1011.0	1004.8	1009.8	1012.3	1009.8
55°	942.8	937.8	940.3	944.0	942.8
57.5°	875.8	870.8	872.1	878.3	875.8
60°	802.6	801.4	800.1	805.1	807.6
62.5°	730.7	729.4	726.9	731.9	734.4
65°	657.5	661.2	659.9	657.5	662.4
67.5°	588.0	591.7	588.0	585.5	585.5
70°	514.8	518.5	517.3	514.8	513.6
72.5°	446.6	446.6	444.1	442.9	444.1
75°	375.9	374.6	375.9	374.6	375.9
77.5°	306.4	307.6	307.6	307.6	306.4
80°	238.2	238.2	238.2	239.4	240.7
82.5°	174.9	171.2	174.9	172.4	173.7
85°	110.4	109.2	111.6	110.4	107.9
87.5°	49.6	50.9	50.9	52.1	52.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)