

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: P293317

Luminaire Tested: **24GR-LD5-64-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4978.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

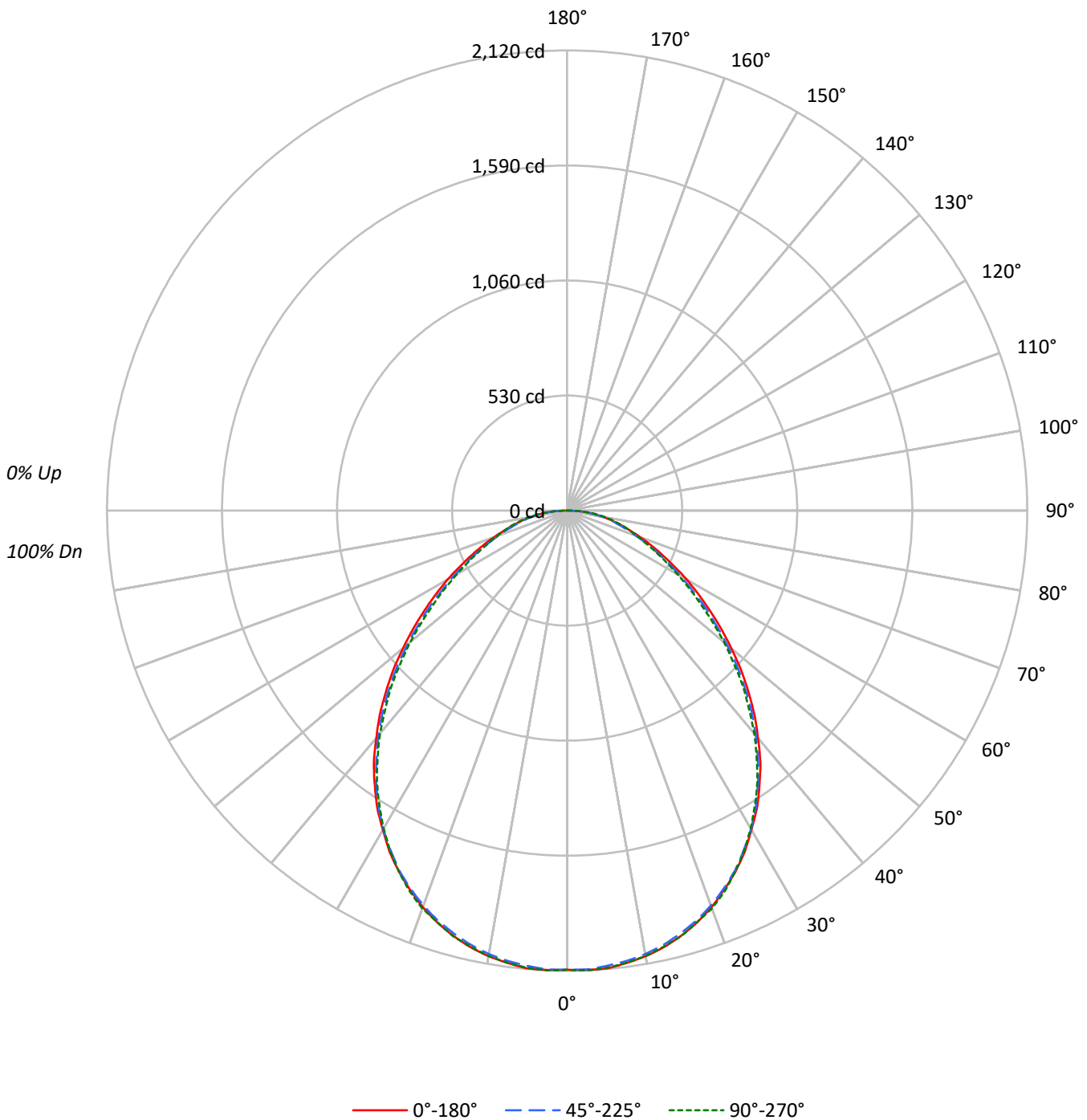
Input Watts (W): 46.998666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2847	2847	2847
5°	2860	2844	2855
10°	2848	2834	2847
15°	2826	2810	2828
20°	2784	2773	2793
25°	2724	2717	2723
30°	2638	2633	2627
35°	2538	2519	2509
40°	2403	2375	2356
45°	2248	2206	2179
50°	2065	2010	1976
55°	1884	1814	1761
60°	1711	1619	1577
65°	1541	1454	1429
70°	1411	1319	1356
75°	1319	1258	1351
80°	1308	1284	1411
85°	1334	1345	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	4.0
10°-20°	569.2	11.4
20°-30°	841.0	16.9
30°-40°	956.1	19.2
40°-50°	892.8	17.9
50°-60°	694.3	13.9
60°-70°	460.7	9.3
70°-80°	266.6	5.4
80°-90°	96.9	1.9
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°	1610.4	32.4
0°-40°	2566.5	51.6
0°-60°	4153.7	83.4
0°-90°	4978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2116	2116	2116	2116	2116	
5°	2117	2106	2106	2109	2114	201
15°	2028	2018	2018	2017	2030	571
25°	1835	1827	1830	1826	1834	844
35°	1545	1538	1534	1523	1527	965
45°	1181	1172	1159	1145	1145	910
55°	803	791	773	753	751	720
65°	484	469	457	448	449	484
75°	254	247	242	253	260	271
85°	86	85	87	99	100	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2115.6	2115.6	2115.6	2115.6	2115.6
2.5°	2118.8	2112.5	2115.6	2113.3	2120.3
5°	2117.2	2106.3	2105.5	2109.4	2114.1
7.5°	2102.4	2090.8	2093.1	2093.1	2100.9
10°	2084.5	2072.9	2074.4	2075.2	2083.7
12.5°	2060.4	2048.7	2049.5	2048.7	2057.3
15°	2028.5	2018.4	2017.6	2016.8	2030.1
17.5°	1989.6	1975.6	1980.3	1981.0	1988.0
20°	1944.5	1933.6	1936.7	1935.9	1950.7
22.5°	1890.8	1883.0	1885.3	1883.8	1897.8
25°	1834.8	1827.0	1830.1	1826.2	1834.0
27.5°	1771.7	1766.3	1763.2	1760.8	1766.3
30°	1697.8	1694.7	1694.7	1684.6	1690.8
32.5°	1627.8	1617.7	1617.7	1613.8	1609.9
35°	1545.3	1537.5	1533.6	1522.7	1527.4
37.5°	1462.8	1444.9	1443.4	1434.8	1434.8
40°	1367.9	1357.8	1352.3	1343.0	1341.4
42.5°	1277.6	1267.5	1258.2	1242.6	1239.5
45°	1181.2	1171.8	1159.4	1144.6	1145.4
47.5°	1085.4	1072.2	1060.5	1042.7	1040.3
50°	986.6	977.3	960.2	944.6	943.8
52.5°	894.0	879.3	863.7	845.0	845.0
55°	803.0	791.3	773.4	753.2	750.9
57.5°	715.9	705.0	684.7	669.9	666.1
60°	635.7	620.1	601.5	589.0	585.9
62.5°	555.6	541.6	527.6	515.1	514.3
65°	484.0	469.2	456.7	448.2	449.0
67.5°	419.4	406.9	392.9	390.6	391.4
70°	358.7	345.5	335.4	340.8	344.7
72.5°	301.1	294.1	287.1	294.9	300.3
75°	253.7	247.4	242.0	252.9	259.9
77.5°	210.1	205.4	204.6	214.0	220.2
80°	168.8	163.4	165.7	176.6	182.1
82.5°	128.4	124.5	125.3	138.5	142.4
85°	86.4	84.8	87.1	98.8	99.6
87.5°	45.9	45.9	47.5	54.5	52.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)