

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: P293408

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293408
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-LD5-85-F125-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7510.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

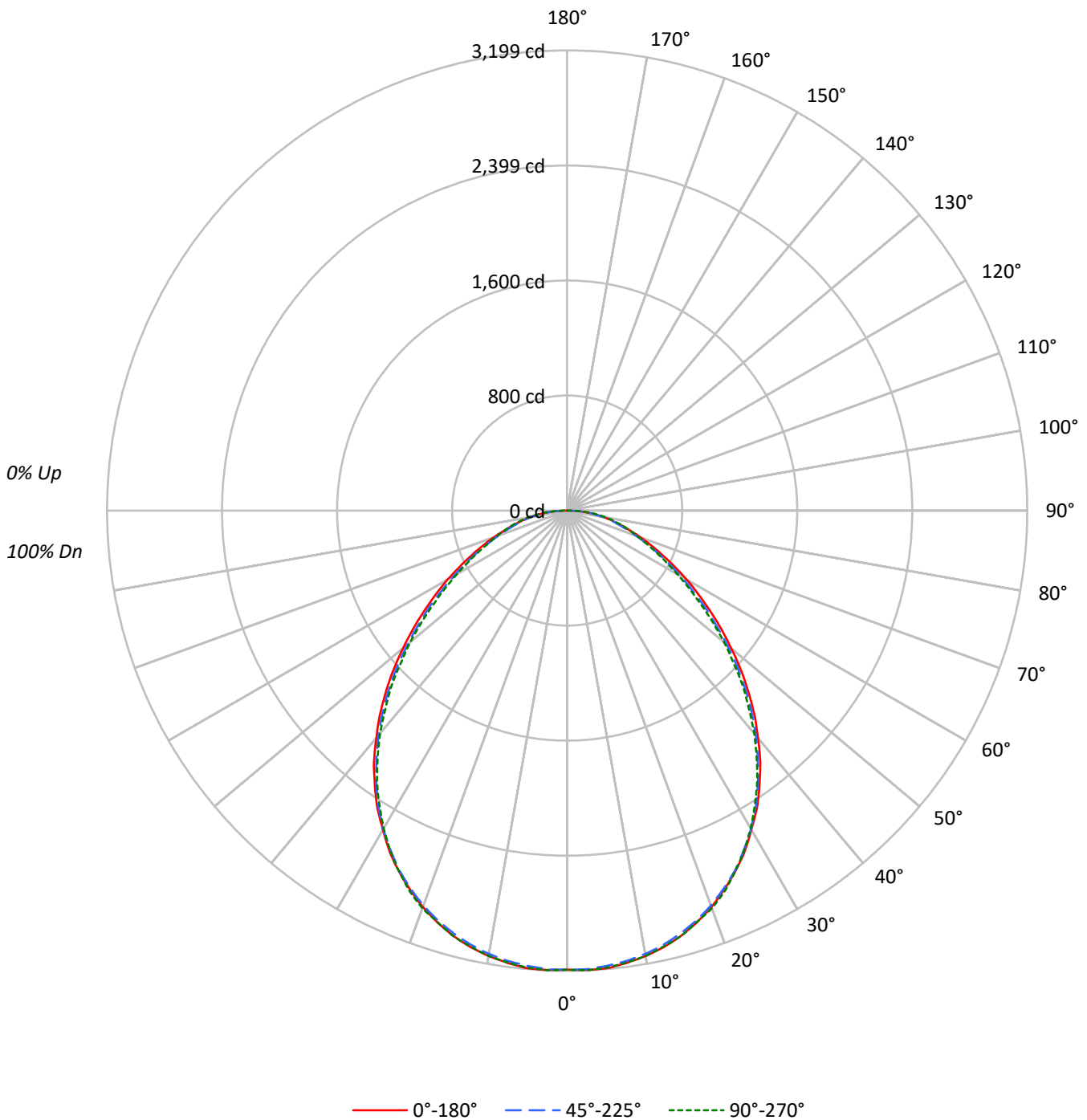
Input Watts (W): 63.612
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	4294	4294	4294
5°	4314	4290	4308
10°	4297	4276	4295
15°	4263	4240	4266
20°	4200	4184	4214
25°	4109	4099	4108
30°	3979	3972	3963
35°	3829	3800	3785
40°	3625	3583	3554
45°	3391	3328	3288
50°	3116	3032	2981
55°	2842	2737	2657
60°	2581	2442	2379
65°	2324	2194	2156
70°	2129	1990	2046
75°	1989	1898	2038
80°	1974	1937	2128
85°	2012	2030	2320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	4.0
10°-20°	858.8	11.4
20°-30°	1268.7	16.9
30°-40°	1442.4	19.2
40°-50°	1347.0	17.9
50°-60°	1047.5	13.9
60°-70°	695.0	9.3
70°-80°	402.2	5.4
80°-90°	146.3	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°	2429.6	32.4
0°-40°	3872.0	51.6
0°-60°	6266.5	83.4
0°-90°	7510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3192	3192	3192	3192	3192	
5°	3194	3178	3176	3182	3189	303
15°	3060	3045	3044	3043	3063	862
25°	2768	2756	2761	2755	2767	1273
35°	2331	2320	2314	2297	2304	1455
45°	1782	1768	1749	1727	1728	1373
55°	1211	1194	1167	1136	1133	1086
65°	730	708	689	676	677	730
75°	383	373	365	382	392	409
85°	130	128	132	149	150	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3191.7	3191.7	3191.7	3191.7	3191.7
2.5°	3196.4	3187.1	3191.7	3188.2	3198.8
5°	3194.1	3177.7	3176.5	3182.4	3189.4
7.5°	3171.8	3154.2	3157.7	3157.7	3169.4
10°	3144.8	3127.2	3129.5	3130.7	3143.6
12.5°	3108.4	3090.8	3092.0	3090.8	3103.7
15°	3060.3	3045.0	3043.8	3042.7	3062.6
17.5°	3001.6	2980.5	2987.5	2988.7	2999.2
20°	2933.5	2917.1	2921.8	2920.6	2942.9
22.5°	2852.5	2840.8	2844.3	2841.9	2863.1
25°	2768.0	2756.2	2760.9	2755.1	2766.8
27.5°	2672.9	2664.7	2660.0	2656.5	2664.7
30°	2561.4	2556.7	2556.7	2541.4	2550.8
32.5°	2455.7	2440.5	2440.5	2434.6	2428.7
35°	2331.3	2319.6	2313.7	2297.3	2304.3
37.5°	2206.9	2179.9	2177.5	2164.6	2164.6
40°	2063.7	2048.4	2040.2	2026.1	2023.7
42.5°	1927.5	1912.2	1898.1	1874.7	1870.0
45°	1781.9	1767.8	1749.1	1726.8	1727.9
47.5°	1637.5	1617.6	1600.0	1573.0	1569.5
50°	1488.5	1474.4	1448.6	1425.1	1423.9
52.5°	1348.8	1326.5	1303.0	1274.8	1274.8
55°	1211.4	1193.8	1166.8	1136.3	1132.8
57.5°	1080.0	1063.5	1033.0	1010.7	1004.8
60°	959.1	935.6	907.4	888.6	883.9
62.5°	838.1	817.0	795.9	777.1	775.9
65°	730.1	707.8	689.1	676.1	677.3
67.5°	632.7	613.9	592.8	589.3	590.5
70°	541.2	521.2	505.9	514.2	520.0
72.5°	454.3	443.7	433.2	444.9	453.1
75°	382.7	373.3	365.1	381.5	392.1
77.5°	316.9	309.9	308.7	322.8	332.2
80°	254.7	246.5	250.0	266.5	274.7
82.5°	193.7	187.8	189.0	208.9	214.8
85°	130.3	128.0	131.5	149.1	150.3
87.5°	69.3	69.3	71.6	82.2	78.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)