

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: P292949

Luminaire Tested: **24GR-LD5-85-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F1-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7833.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

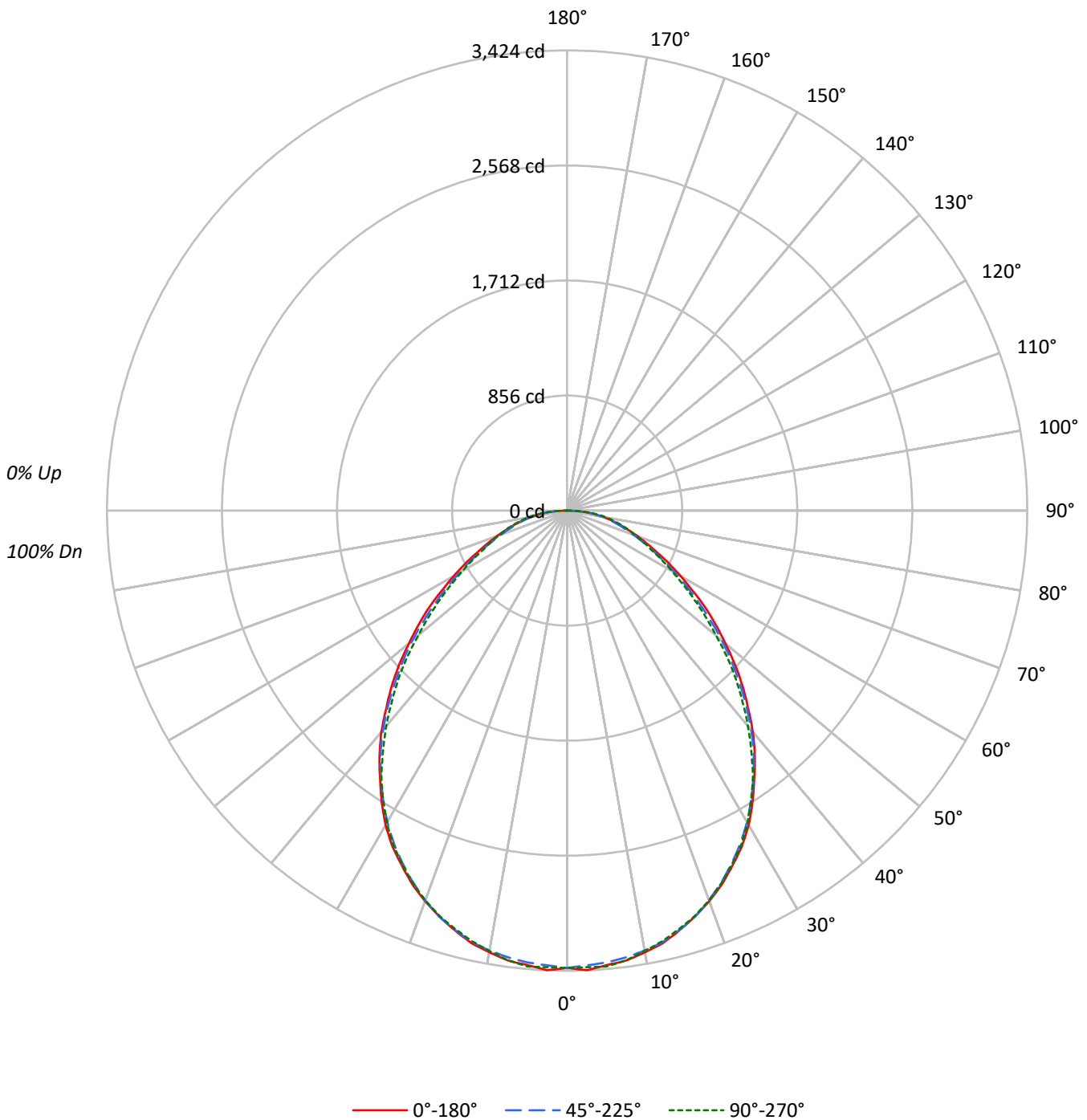
Input Watts (W): 62.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4578	4578	4578
5°	4585	4558	4598
10°	4560	4540	4545
15°	4503	4499	4487
20°	4428	4418	4418
25°	4324	4301	4310
30°	4199	4157	4169
35°	3989	3970	3959
40°	3777	3743	3678
45°	3511	3449	3382
50°	3216	3145	3027
55°	2937	2804	2710
60°	2617	2491	2426
65°	2356	2232	2202
70°	2186	2053	2135
75°	2091	1999	2167
80°	2091	2091	2316
85°	2171	2195	2444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	4.1
10°-20°	909.3	11.6
20°-30°	1334.6	17.0
30°-40°	1508.8	19.3
40°-50°	1394.5	17.8
50°-60°	1074.4	13.7
60°-70°	711.4	9.1
70°-80°	423.5	5.4
80°-90°	155.2	2.0
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°	2565.2	32.7
0°-40°	4074.1	52.0
0°-60°	6542.9	83.5
0°-90°	7833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3394	3394	3375	3377	3404	323
15°	3233	3226	3230	3228	3222	911
25°	2913	2905	2897	2894	2903	1341
35°	2428	2425	2417	2406	2410	1519
45°	1845	1832	1813	1780	1777	1421
55°	1252	1226	1196	1163	1155	1117
65°	740	729	701	695	692	742
75°	402	393	384	402	417	429
85°	141	132	142	157	158	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3402.5	3402.5	3402.5	3402.5	3402.5
2.5°	3423.5	3405.7	3386.3	3386.3	3400.9
5°	3394.4	3394.4	3375.0	3376.6	3404.1
7.5°	3376.6	3366.9	3354.0	3354.0	3375.0
10°	3337.8	3329.8	3323.3	3320.1	3326.5
12.5°	3295.8	3282.9	3287.8	3282.9	3281.3
15°	3232.8	3226.4	3229.6	3228.0	3221.5
17.5°	3165.0	3161.7	3168.2	3156.9	3161.7
20°	3092.3	3082.6	3085.8	3079.3	3085.8
22.5°	3009.9	3003.4	2995.3	2987.3	3000.2
25°	2912.9	2904.9	2896.8	2893.6	2903.2
27.5°	2816.0	2803.1	2791.8	2788.5	2803.1
30°	2702.9	2688.4	2675.4	2672.2	2683.5
32.5°	2568.8	2565.6	2549.4	2543.0	2547.8
35°	2428.3	2425.0	2416.9	2405.6	2410.5
37.5°	2294.2	2292.5	2281.2	2261.9	2248.9
40°	2150.4	2139.1	2131.0	2103.5	2093.8
42.5°	1992.0	1988.8	1974.3	1943.6	1932.3
45°	1845.0	1832.1	1812.7	1780.4	1777.2
47.5°	1693.2	1675.4	1657.6	1617.2	1615.6
50°	1536.4	1523.5	1502.5	1462.1	1446.0
52.5°	1391.0	1373.3	1344.2	1305.4	1297.3
55°	1252.1	1226.2	1195.5	1163.2	1155.2
57.5°	1103.5	1092.2	1055.0	1029.1	1019.4
60°	972.6	962.9	925.7	901.5	901.5
62.5°	854.7	840.1	807.8	791.6	791.6
65°	739.9	728.6	701.2	694.7	691.5
67.5°	641.4	626.9	607.5	605.9	613.9
70°	555.8	538.0	521.8	538.0	542.8
72.5°	475.0	463.7	449.1	470.1	479.8
75°	402.3	392.6	384.5	402.3	416.8
77.5°	336.0	326.4	326.4	345.7	358.7
80°	269.8	263.3	269.8	286.0	298.9
82.5°	206.8	202.0	210.0	226.2	234.3
85°	140.6	132.5	142.2	156.7	158.3
87.5°	66.2	64.6	71.1	80.8	79.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)