

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: P293157

Luminaire Tested: **24GR-LD5-85-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293157
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-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7662.0 lumens
Efficiency: N/A
Efficacy: 119.9 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

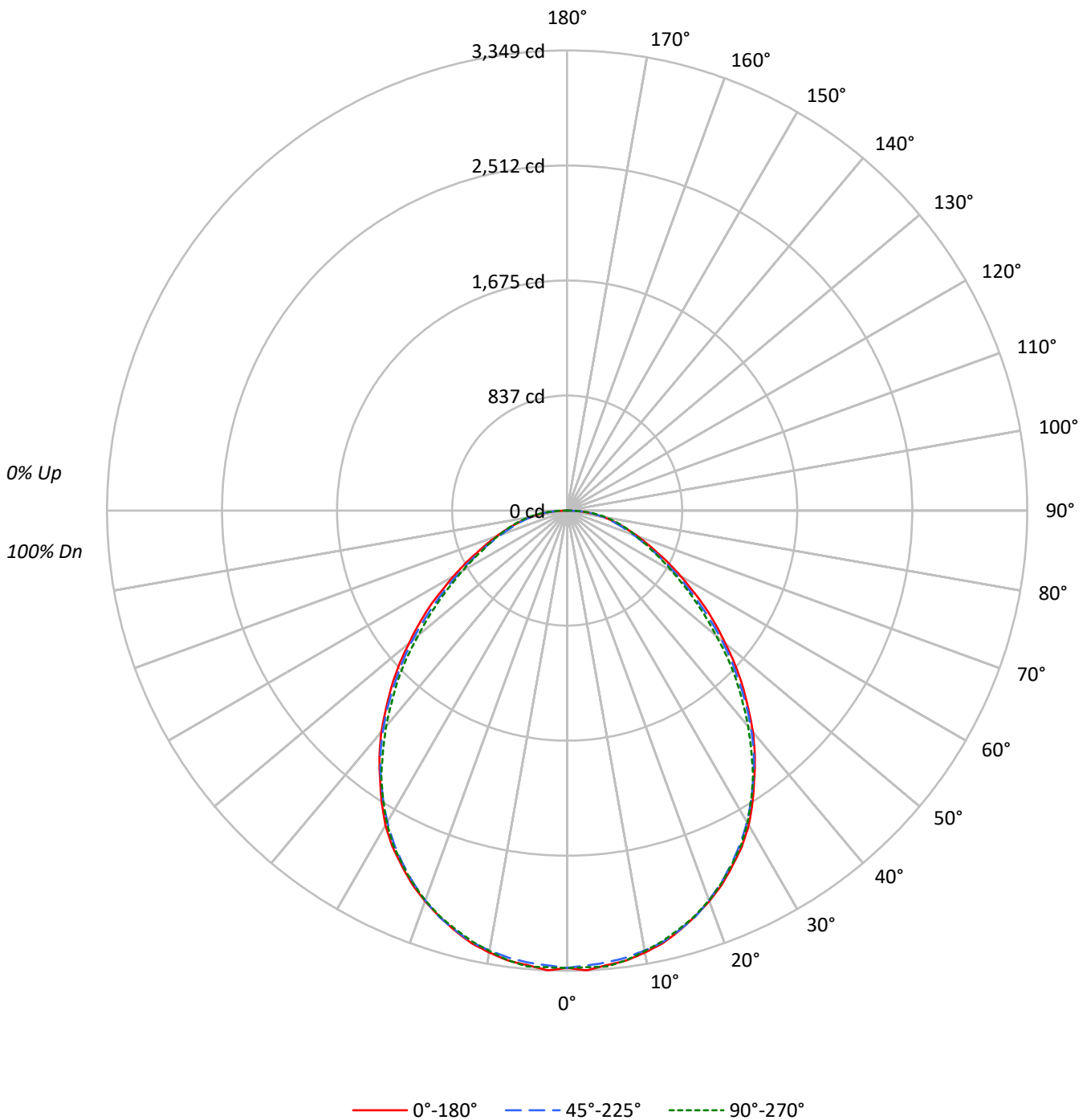
Input Watts (W): 63.891
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4478	4478	4478
5°	4484	4459	4497
10°	4461	4441	4446
15°	4405	4400	4389
20°	4331	4322	4322
25°	4230	4207	4216
30°	4108	4066	4078
35°	3901	3883	3873
40°	3694	3661	3597
45°	3434	3374	3308
50°	3146	3076	2961
55°	2873	2743	2651
60°	2560	2437	2373
65°	2304	2184	2153
70°	2138	2008	2089
75°	2046	1955	2119
80°	2045	2045	2266
85°	2123	2147	2391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	4.1
10°-20°	889.5	11.6
20°-30°	1305.4	17.0
30°-40°	1475.9	19.3
40°-50°	1364.0	17.8
50°-60°	1050.9	13.7
60°-70°	695.9	9.1
70°-80°	414.3	5.4
80°-90°	151.7	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°	2509.2	32.7
0°-40°	3985.1	52.0
0°-60°	6400.1	83.5
0°-90°	7662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3328	3328	3328	3328	3328	
5°	3320	3320	3301	3303	3330	316
15°	3162	3156	3159	3158	3151	891
25°	2849	2841	2834	2830	2840	1312
35°	2375	2372	2364	2353	2358	1486
45°	1805	1792	1773	1742	1738	1390
55°	1225	1200	1169	1138	1130	1092
65°	724	713	686	680	676	726
75°	394	384	376	394	408	420
85°	138	130	139	153	155	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3328.2	3328.2	3328.2	3328.2	3328.2
2.5°	3348.7	3331.4	3312.4	3312.4	3326.6
5°	3320.3	3320.3	3301.3	3302.9	3329.8
7.5°	3302.9	3293.4	3280.8	3280.8	3301.3
10°	3265.0	3257.1	3250.8	3247.6	3253.9
12.5°	3223.9	3211.2	3216.0	3211.2	3209.7
15°	3162.3	3155.9	3159.1	3157.5	3151.2
17.5°	3095.9	3092.7	3099.0	3088.0	3092.7
20°	3024.8	3015.3	3018.4	3012.1	3018.4
22.5°	2944.2	2937.8	2929.9	2922.0	2934.7
25°	2849.3	2841.4	2833.5	2830.4	2839.9
27.5°	2754.5	2741.9	2730.8	2727.7	2741.9
30°	2643.9	2629.7	2617.0	2613.9	2624.9
32.5°	2512.7	2509.6	2493.8	2487.5	2492.2
35°	2375.2	2372.1	2364.2	2353.1	2357.9
37.5°	2244.1	2242.5	2231.4	2212.5	2199.8
40°	2103.4	2092.4	2084.5	2057.6	2048.1
42.5°	1948.6	1945.4	1931.2	1901.1	1890.1
45°	1804.7	1792.1	1773.1	1741.5	1738.4
47.5°	1656.2	1638.8	1621.4	1581.9	1580.3
50°	1502.9	1490.3	1469.7	1430.2	1414.4
52.5°	1360.7	1343.3	1314.8	1276.9	1269.0
55°	1224.8	1199.5	1169.4	1137.8	1129.9
57.5°	1079.4	1068.3	1032.0	1006.7	997.2
60°	951.4	941.9	905.5	881.8	881.8
62.5°	836.0	821.8	790.2	774.4	774.4
65°	723.8	712.7	685.9	679.5	676.4
67.5°	627.4	613.2	594.2	592.6	600.5
70°	543.6	526.3	510.4	526.3	531.0
72.5°	464.6	453.6	439.3	459.9	469.4
75°	393.5	384.0	376.1	393.5	407.7
77.5°	328.7	319.2	319.2	338.2	350.8
80°	263.9	257.6	263.9	279.7	292.4
82.5°	202.3	197.5	205.4	221.2	229.1
85°	137.5	129.6	139.1	153.3	154.9
87.5°	64.8	63.2	69.5	79.0	77.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)