

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: P293535

Luminaire Tested: **24GR-LD5-85-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8635.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

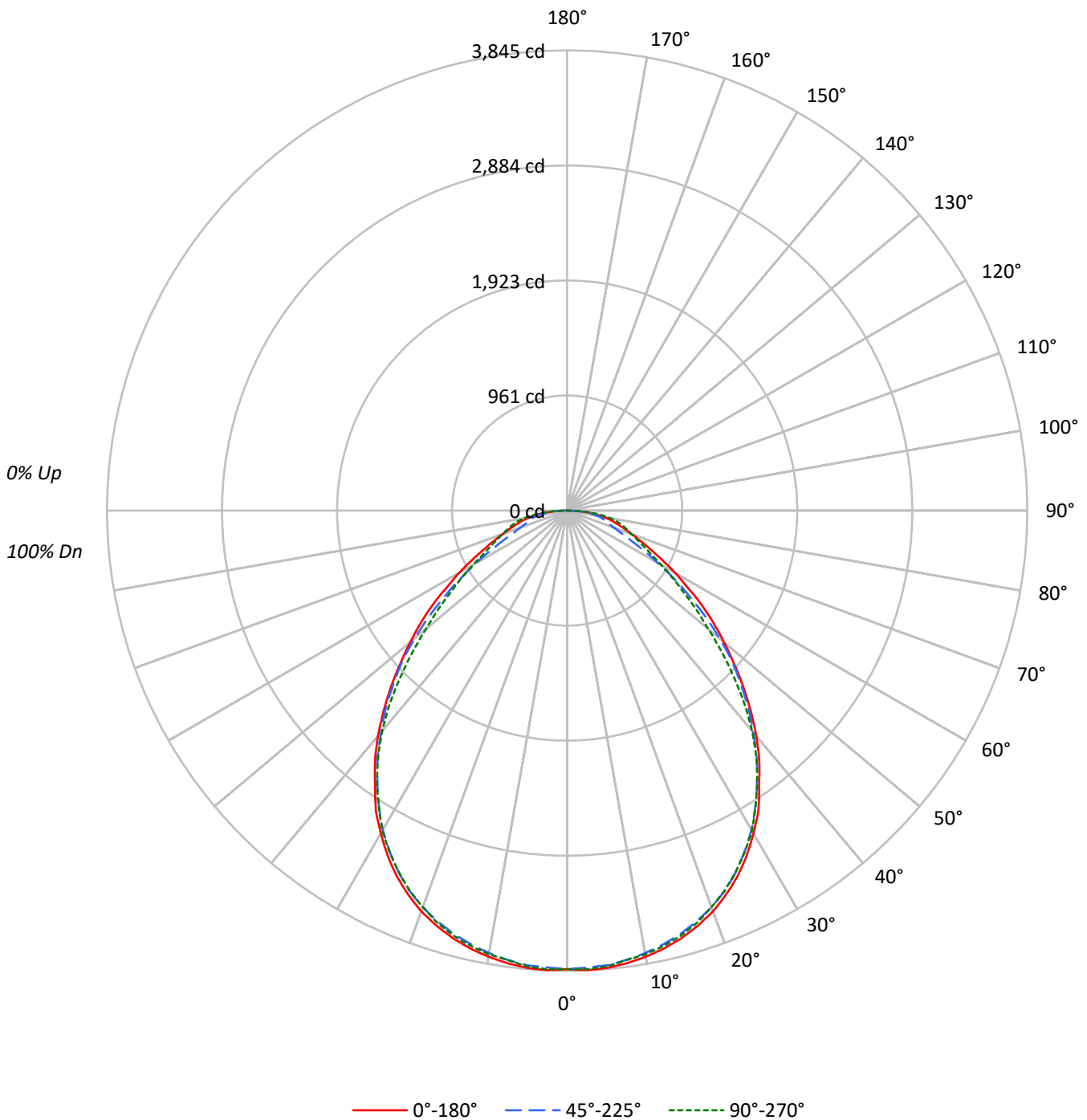
Input Watts (W): 63.891
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5155	5155	5155
5°	5180	5151	5164
10°	5171	5129	5143
15°	5151	5099	5121
20°	5102	5050	5048
25°	5003	4949	4945
30°	4837	4788	4798
35°	4595	4542	4549
40°	4321	4246	4220
45°	3960	3906	3752
50°	3580	3482	3220
55°	3214	2926	2776
60°	2814	2355	2441
65°	2455	1852	2247
70°	2246	1616	2246
75°	2247	1720	2476
80°	2439	2026	2822
85°	2677	2286	3027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.8	4.2
10°-20°	1035.4	12.0
20°-30°	1535.3	17.8
30°-40°	1731.9	20.1
40°-50°	1568.6	18.2
50°-60°	1131.7	13.1
60°-70°	675.7	7.8
70°-80°	417.6	4.8
80°-90°	176.0	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°	2933.4	34.0
0°-40°	4665.4	54.0
0°-60°	7365.7	85.3
0°-90°	8635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3831	3831	3831	3831	3831	
5°	3835	3830	3814	3810	3823	364
15°	3698	3675	3660	3662	3676	1042
25°	3370	3351	3334	3322	3331	1548
35°	2797	2793	2765	2767	2769	1750
45°	2081	2068	2053	2002	1972	1604
55°	1370	1327	1247	1186	1183	1223
65°	771	679	582	660	706	776
75°	432	375	331	412	476	462
85°	173	152	148	193	196	181
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3831.2	3831.2	3831.2	3831.2	3831.2
2.5°	3844.6	3833.9	3820.6	3828.6	3835.3
5°	3835.3	3829.9	3813.9	3809.9	3823.2
7.5°	3815.2	3801.9	3787.2	3793.9	3788.6
10°	3784.6	3772.6	3753.9	3755.2	3764.5
12.5°	3747.2	3732.5	3712.5	3717.9	3725.9
15°	3697.8	3675.2	3660.5	3661.8	3676.5
17.5°	3635.2	3617.8	3599.1	3603.1	3609.8
20°	3563.1	3553.8	3527.1	3519.1	3525.8
22.5°	3472.4	3455.1	3440.4	3436.4	3437.7
25°	3369.7	3351.0	3333.7	3321.7	3331.0
27.5°	3249.6	3233.6	3210.9	3206.9	3214.9
30°	3113.6	3101.6	3081.5	3076.2	3088.2
32.5°	2974.8	2954.8	2926.8	2926.8	2929.5
35°	2797.4	2793.4	2765.4	2766.7	2769.4
37.5°	2637.3	2618.6	2602.6	2586.6	2594.6
40°	2459.9	2438.6	2417.2	2406.5	2402.5
42.5°	2269.1	2253.1	2243.8	2205.1	2195.8
45°	2081.0	2067.7	2053.0	2002.3	1971.7
47.5°	1888.9	1886.3	1874.3	1784.9	1754.2
50°	1710.2	1706.2	1663.5	1568.8	1538.1
52.5°	1540.8	1514.1	1458.1	1364.7	1359.3
55°	1370.0	1327.3	1247.3	1185.9	1183.3
57.5°	1189.9	1139.2	1057.9	1024.5	1041.9
60°	1045.9	968.5	875.1	879.1	907.1
62.5°	896.4	809.7	717.7	757.7	791.1
65°	771.1	679.0	581.6	660.3	705.7
67.5°	661.7	576.3	482.9	588.3	632.3
70°	571.0	501.6	410.9	521.6	571.0
72.5°	498.9	434.9	364.2	468.2	525.6
75°	432.2	374.9	330.8	412.2	476.2
77.5°	374.9	318.8	298.8	364.2	426.9
80°	314.8	264.1	261.5	317.5	364.2
82.5°	245.5	210.8	210.8	265.5	293.5
85°	173.4	152.1	148.1	193.4	196.1
87.5°	89.4	85.4	77.4	101.4	101.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)