

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: P475725

Luminaire Tested: **24GR-LD5-90-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475725
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8739.8 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

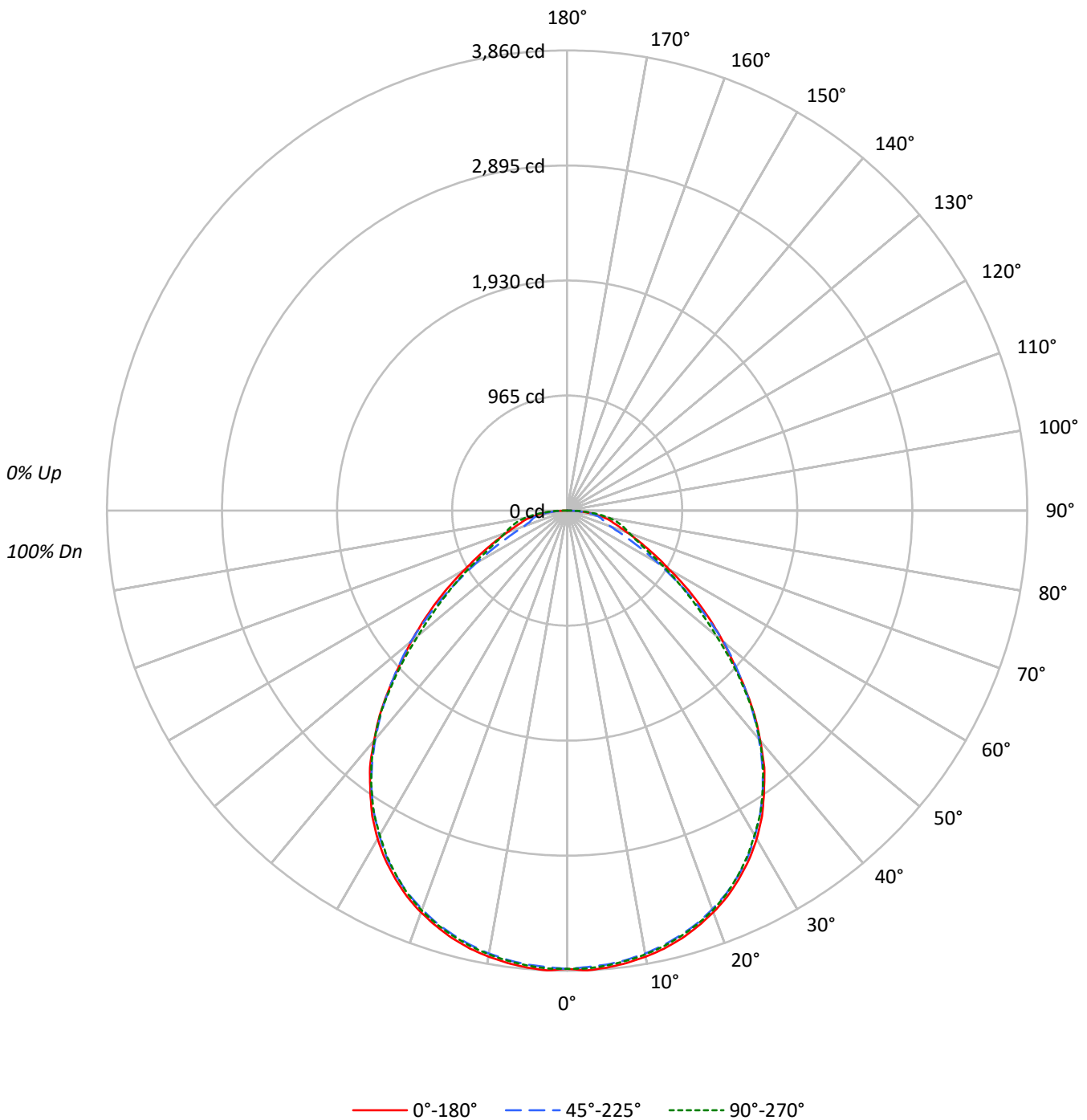
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5172	5172	5172
5°	5198	5163	5174
10°	5190	5154	5165
15°	5175	5134	5146
20°	5134	5097	5111
25°	5063	5026	5022
30°	4940	4895	4883
35°	4728	4698	4698
40°	4424	4398	4416
45°	4017	4010	3977
50°	3563	3590	3413
55°	3131	2994	2923
60°	2665	2364	2487
65°	2329	1838	2195
70°	2106	1513	2190
75°	2107	1615	2447
80°	2321	1987	2800
85°	2391	2232	3055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.0	4.2
10°-20°	1042.1	11.9
20°-30°	1558.9	17.8
30°-40°	1783.9	20.4
40°-50°	1616.3	18.5
50°-60°	1144.3	13.1
60°-70°	661.0	7.6
70°-80°	400.8	4.6
80°-90°	168.7	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°	2965.0	33.9
0°-40°	4748.9	54.3
0°-60°	7509.4	85.9
0°-90°	8739.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8739.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3844	3844	3844	3844	3844	
5°	3848	3835	3822	3822	3831	366
15°	3715	3700	3686	3686	3694	1048
25°	3410	3397	3385	3383	3383	1569
35°	2878	2866	2860	2856	2860	1796
45°	2111	2107	2108	2092	2090	1626
55°	1335	1290	1276	1238	1246	1196
65°	732	656	577	661	689	735
75°	405	363	311	399	471	434
85°	155	139	145	185	198	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3844.1	3844.1	3844.1	3844.1	3844.1
2.5°	3860.4	3845.8	3832.9	3834.6	3844.1
5°	3848.4	3834.6	3822.5	3821.7	3831.1
7.5°	3827.7	3815.7	3801.9	3801.9	3809.6
10°	3798.4	3786.4	3772.6	3771.8	3780.4
12.5°	3764.0	3748.5	3733.9	3733.9	3743.4
15°	3715.0	3700.3	3685.7	3685.7	3694.3
17.5°	3654.7	3641.8	3629.8	3630.6	3637.5
20°	3585.9	3573.0	3560.1	3561.8	3569.5
22.5°	3506.7	3491.2	3480.9	3480.0	3485.2
25°	3410.3	3396.6	3385.4	3382.8	3382.8
27.5°	3302.8	3288.1	3280.4	3268.4	3271.8
30°	3179.7	3164.2	3150.5	3143.6	3142.7
32.5°	3041.2	3025.7	3013.6	3012.8	3016.2
35°	2878.5	2865.6	2860.5	2856.2	2860.5
37.5°	2717.6	2693.5	2689.2	2688.3	2699.5
40°	2518.8	2510.2	2504.2	2499.9	2514.5
42.5°	2327.8	2310.6	2312.3	2295.9	2321.8
45°	2110.9	2106.6	2107.5	2092.0	2090.3
47.5°	1895.8	1894.9	1907.8	1864.8	1862.2
50°	1702.2	1693.6	1715.1	1648.8	1630.7
52.5°	1517.1	1493.0	1486.2	1425.9	1425.9
55°	1334.7	1290.0	1276.2	1238.3	1246.1
57.5°	1161.7	1098.1	1069.7	1068.8	1081.7
60°	990.5	918.2	878.6	909.6	924.2
62.5°	854.5	775.4	715.1	773.6	787.4
65°	731.5	655.7	577.4	660.9	689.3
67.5°	625.6	562.8	464.7	574.0	611.8
70°	535.3	479.3	384.7	506.0	556.8
72.5°	463.8	417.4	334.8	451.8	512.9
75°	405.3	363.2	310.7	399.3	470.7
77.5°	358.8	308.9	290.9	349.4	422.5
80°	299.5	253.9	256.4	300.3	361.4
82.5°	230.6	196.2	206.5	248.7	284.0
85°	154.9	139.4	144.6	185.0	197.9
87.5°	76.6	74.0	79.2	108.4	108.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)