

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: P219137

Luminaire Tested: **24GR-LD5-85-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8021.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

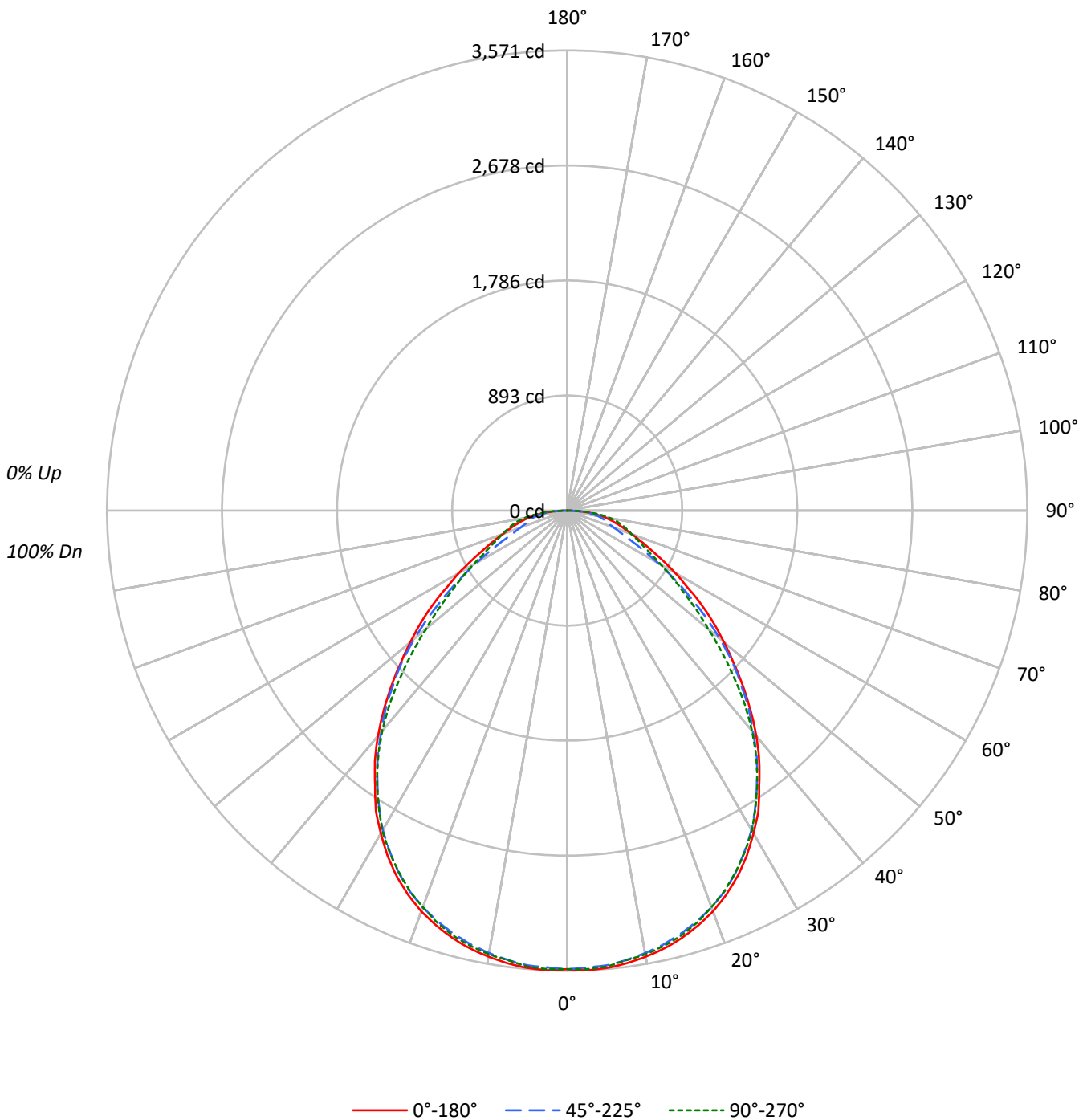
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5451	5451	5451
5°	5477	5447	5460
10°	5467	5423	5439
15°	5447	5392	5415
20°	5395	5340	5338
25°	5290	5233	5229
30°	5115	5062	5073
35°	4859	4803	4810
40°	4569	4489	4462
45°	4187	4131	3967
50°	3785	3682	3404
55°	3398	3094	2935
60°	2976	2490	2581
65°	2596	1958	2376
70°	2375	1709	2375
75°	2376	1819	2618
80°	2580	2142	2983
85°	2831	2416	3202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	4.2
10°-20°	961.8	12.0
20°-30°	1426.1	17.8
30°-40°	1608.8	20.1
40°-50°	1457.1	18.2
50°-60°	1051.2	13.1
60°-70°	627.7	7.8
70°-80°	387.9	4.8
80°-90°	163.4	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°	2724.9	34.0
0°-40°	4333.7	54.0
0°-60°	6842.0	85.3
0°-90°	8021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3559	3559	3559	3559	3559	
5°	3563	3558	3543	3539	3551	339
15°	3435	3414	3400	3402	3415	968
25°	3130	3113	3097	3085	3094	1438
35°	2598	2595	2569	2570	2572	1626
45°	1933	1921	1907	1860	1832	1490
55°	1273	1233	1159	1102	1099	1136
65°	716	631	540	613	656	720
75°	402	348	307	383	442	429
85°	161	141	138	180	182	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3558.8	3558.8	3558.8	3558.8	3558.8
2.5°	3571.2	3561.3	3548.9	3556.4	3562.6
5°	3562.6	3557.6	3542.7	3539.0	3551.4
7.5°	3544.0	3531.6	3518.0	3524.2	3519.2
10°	3515.5	3504.3	3486.9	3488.2	3496.9
12.5°	3480.8	3467.2	3448.5	3453.5	3460.9
15°	3434.9	3413.9	3400.2	3401.5	3415.1
17.5°	3376.6	3360.5	3343.2	3347.0	3353.2
20°	3309.8	3301.1	3276.3	3268.9	3275.1
22.5°	3225.5	3209.4	3195.7	3192.1	3193.3
25°	3130.1	3112.7	3096.6	3085.4	3094.2
27.5°	3018.6	3003.7	2982.6	2978.9	2986.3
30°	2892.2	2881.1	2862.4	2857.5	2868.6
32.5°	2763.3	2744.7	2718.7	2718.7	2721.2
35°	2598.5	2594.8	2568.7	2570.0	2572.5
37.5°	2449.8	2432.4	2417.6	2402.7	2410.1
40°	2285.0	2265.2	2245.3	2235.4	2231.7
42.5°	2107.8	2092.9	2084.3	2048.3	2039.7
45°	1933.1	1920.6	1907.1	1859.9	1831.5
47.5°	1754.7	1752.2	1741.0	1658.0	1629.4
50°	1588.6	1584.9	1545.2	1457.3	1428.7
52.5°	1431.2	1406.4	1354.4	1267.6	1262.7
55°	1272.6	1233.0	1158.6	1101.6	1099.1
57.5°	1105.3	1058.2	982.6	951.7	967.8
60°	971.5	899.6	812.9	816.6	842.7
62.5°	832.7	752.2	666.7	703.8	734.8
65°	716.3	630.7	540.3	613.3	655.5
67.5°	614.6	535.4	448.5	546.5	587.3
70°	530.3	465.9	381.7	484.5	530.3
72.5°	463.5	403.9	338.2	435.0	488.2
75°	401.5	348.2	307.3	382.9	442.4
77.5°	348.2	296.1	277.6	338.2	396.5
80°	292.5	245.3	242.9	294.9	338.2
82.5°	228.0	195.7	195.7	246.6	272.6
85°	161.1	141.2	137.5	179.6	182.2
87.5°	83.0	79.3	71.9	94.2	94.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)