

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: P219062

Luminaire Tested: **24GR-LD5-85-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F1-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7492.5 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

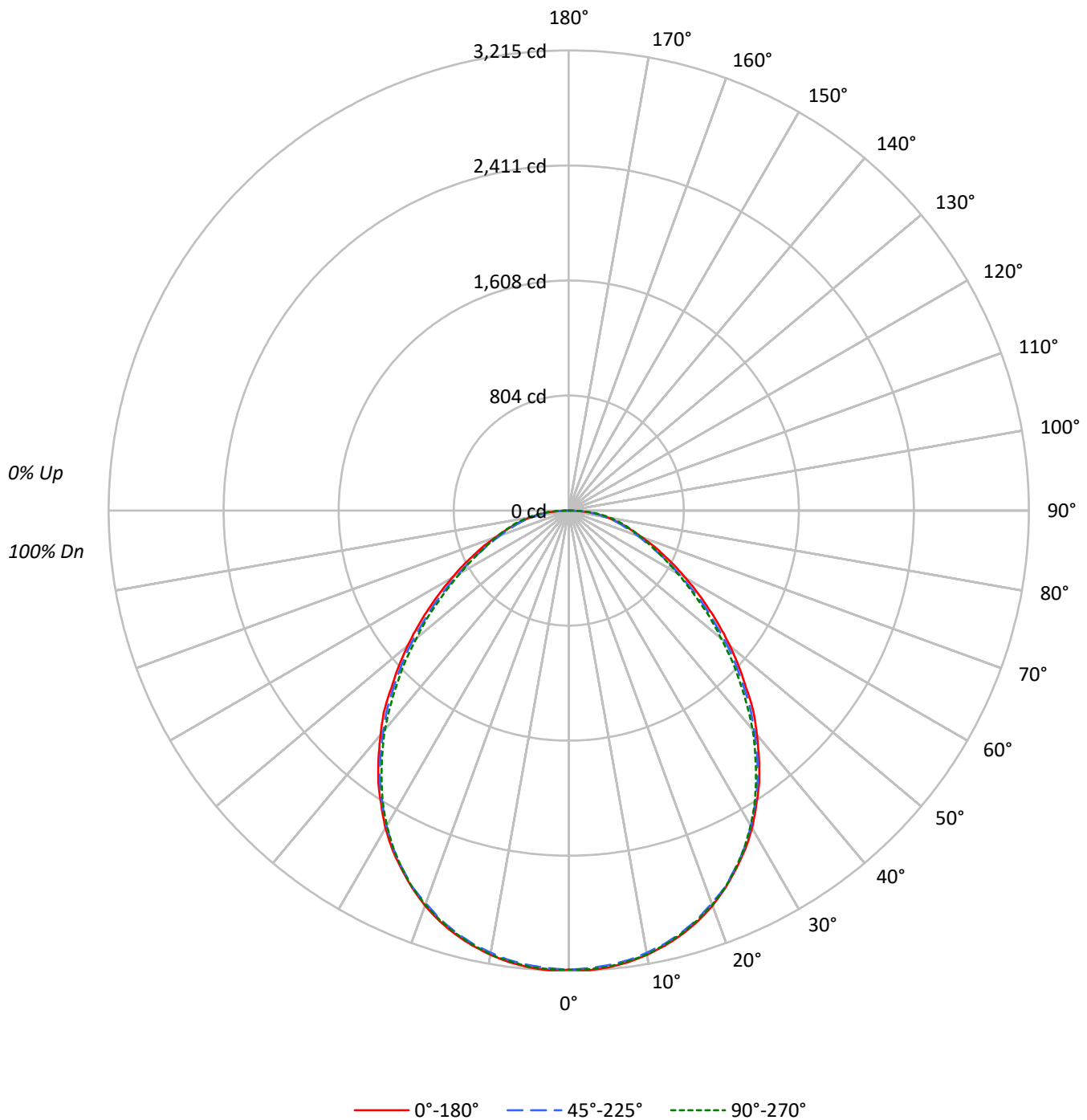
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			94	92	90			91
2	100	92	86	80	98	90	85	80		87	82	78			84	80	76			81
3	92	82	74	68	89	80	73	67		77	71	66			75	69	65			72
4	85	73	65	58	82	72	64	58		69	63	57			67	61	57			65
5	78	66	57	51	76	65	57	51		63	56	50			61	55	50			59
6	72	60	51	45	71	59	51	45		57	50	44			55	49	44			54
7	67	54	46	40	66	54	46	40		52	45	40			51	44	39			49
8	63	50	42	36	61	49	41	36		48	41	36			47	40	36			46
9	59	46	38	33	58	45	38	33		44	37	32			43	37	32			42
10	55	43	35	30	54	42	35	30		41	34	30			40	34	29			39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4913	4913	4913
5°	4925	4902	4916
10°	4901	4880	4898
15°	4860	4838	4849
20°	4788	4760	4779
25°	4672	4656	4660
30°	4529	4503	4495
35°	4337	4303	4264
40°	4088	4035	3996
45°	3798	3731	3661
50°	3501	3410	3309
55°	3183	3072	2977
60°	2884	2732	2682
65°	2637	2462	2479
70°	2426	2287	2395
75°	2358	2235	2440
80°	2364	2303	2598
85°	2597	2457	2863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	4.0
10°-20°	860.2	11.5
20°-30°	1267.5	16.9
30°-40°	1433.4	19.1
40°-50°	1329.6	17.7
50°-60°	1033.0	13.8
60°-70°	692.7	9.2
70°-80°	415.1	5.5
80°-90°	157.9	2.1
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°	2430.8	32.4
0°-40°	3864.2	51.6
0°-60°	6226.8	83.1
0°-90°	7492.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7492.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3208	3208	3208	3208	3208	
5°	3203	3194	3188	3186	3198	304
15°	3065	3052	3051	3045	3058	863
25°	2764	2761	2755	2750	2757	1272
35°	2320	2310	2301	2287	2280	1446
45°	1754	1747	1722	1696	1690	1356
55°	1192	1178	1151	1122	1115	1070
65°	728	705	679	677	684	726
75°	398	385	378	396	412	421
85°	148	139	140	164	163	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3208.0	3208.0	3208.0	3208.0	3208.0
2.5°	3214.9	3204.4	3199.9	3197.6	3208.0
5°	3203.3	3194.1	3188.3	3186.0	3197.6
7.5°	3182.5	3172.1	3168.7	3164.0	3175.6
10°	3151.4	3142.1	3137.5	3134.0	3149.1
12.5°	3112.1	3104.0	3099.4	3097.0	3106.3
15°	3064.7	3052.0	3050.8	3045.1	3057.8
17.5°	3005.8	2994.3	2991.9	2989.6	2997.7
20°	2937.7	2926.1	2920.3	2919.2	2931.8
22.5°	2855.6	2847.5	2849.9	2842.9	2852.2
25°	2764.4	2760.9	2755.1	2750.5	2757.4
27.5°	2669.6	2658.1	2658.1	2648.8	2655.8
30°	2561.1	2553.0	2546.0	2536.8	2541.4
32.5°	2438.6	2435.1	2424.8	2415.5	2417.8
35°	2319.6	2310.4	2301.1	2287.3	2280.4
37.5°	2183.3	2174.1	2162.5	2142.9	2140.5
40°	2044.6	2036.6	2018.1	1997.4	1998.5
42.5°	1913.0	1900.3	1877.2	1849.4	1843.7
45°	1753.5	1746.7	1722.4	1695.8	1690.1
47.5°	1611.5	1606.8	1576.8	1549.1	1542.2
50°	1469.4	1456.7	1431.3	1403.5	1388.6
52.5°	1329.6	1313.5	1281.1	1262.7	1255.7
55°	1192.1	1178.3	1150.6	1121.7	1114.7
57.5°	1063.9	1048.9	1015.4	994.6	991.2
60°	941.4	927.6	891.8	876.8	875.7
62.5°	832.9	809.8	785.5	775.1	776.3
65°	727.7	704.7	679.2	676.9	683.9
67.5°	635.4	611.1	585.7	594.9	601.8
70°	541.8	524.4	510.6	525.6	534.8
72.5°	462.1	451.7	438.9	459.8	471.3
75°	398.5	384.7	377.7	396.2	412.4
77.5°	330.4	318.8	318.8	338.5	355.8
80°	268.0	259.9	261.1	284.1	294.6
82.5°	210.3	198.7	199.9	228.8	235.6
85°	147.8	138.6	139.8	164.0	162.9
87.5°	77.4	74.0	77.4	94.7	90.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)