

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: P219182

Luminaire Tested: **24GR-LD5-85-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219182
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-A125-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7506.6 lumens
Efficiency: N/A
Efficacy: 106.7 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

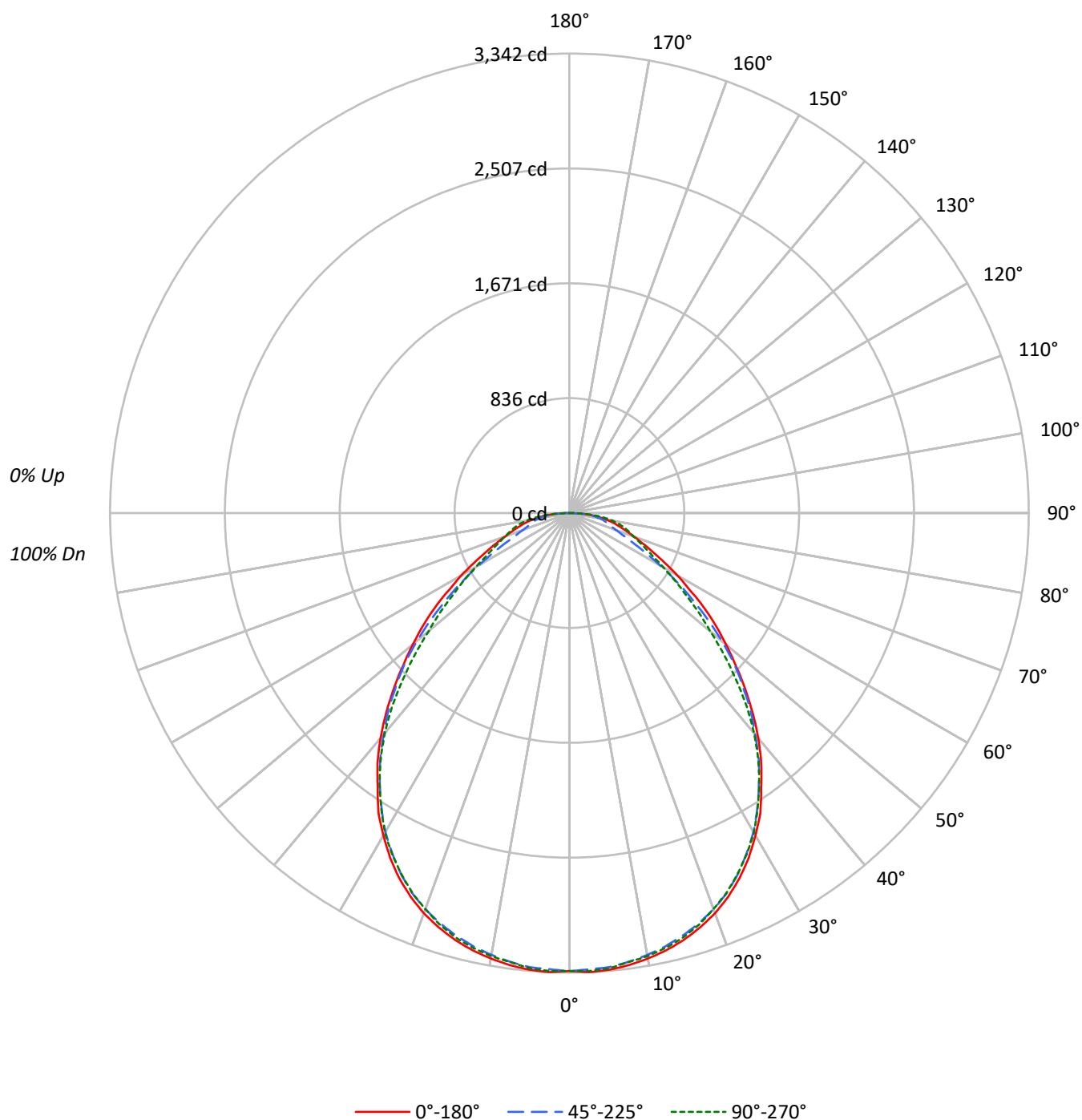
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5101	5101	5101
5°	5126	5097	5110
10°	5117	5075	5090
15°	5097	5046	5068
20°	5049	4998	4996
25°	4950	4898	4894
30°	4787	4738	4748
35°	4547	4495	4501
40°	4276	4201	4176
45°	3919	3866	3713
50°	3542	3446	3186
55°	3180	2895	2747
60°	2785	2331	2415
65°	2429	1832	2223
70°	2223	1600	2223
75°	2223	1702	2450
80°	2414	2005	2792
85°	2650	2262	2996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	4.2
10°-20°	900.1	12.0
20°-30°	1334.6	17.8
30°-40°	1505.6	20.1
40°-50°	1363.6	18.2
50°-60°	983.8	13.1
60°-70°	587.4	7.8
70°-80°	363.1	4.8
80°-90°	153.0	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°	2550.1	34.0
0°-40°	4055.7	54.0
0°-60°	6403.2	85.3
0°-90°	7506.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7506.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3331	3331	3331	3331	3331	
5°	3334	3329	3316	3312	3324	317
15°	3215	3195	3182	3183	3196	906
25°	2929	2913	2898	2888	2896	1346
35°	2432	2428	2404	2405	2408	1522
45°	1809	1798	1785	1741	1714	1394
55°	1191	1154	1084	1031	1029	1063
65°	670	590	506	574	613	674
75°	376	326	288	358	414	401
85°	151	132	129	168	170	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3330.6	3330.6	3330.6	3330.6	3330.6
2.5°	3342.1	3332.9	3321.3	3328.3	3334.0
5°	3334.0	3329.4	3315.5	3312.0	3323.6
7.5°	3316.7	3305.1	3292.3	3298.1	3293.5
10°	3290.0	3279.5	3263.3	3264.5	3272.6
12.5°	3257.5	3244.8	3227.3	3232.0	3238.9
15°	3214.6	3194.9	3182.2	3183.3	3196.0
17.5°	3160.1	3145.0	3128.8	3132.3	3138.1
20°	3097.5	3089.4	3066.2	3059.2	3065.0
22.5°	3018.6	3003.5	2990.8	2987.3	2988.5
25°	2929.3	2913.1	2898.0	2887.5	2895.7
27.5°	2824.9	2811.0	2791.3	2787.9	2794.8
30°	2706.7	2696.3	2678.8	2674.2	2684.7
32.5°	2586.0	2568.6	2544.3	2544.3	2546.6
35°	2431.8	2428.4	2404.0	2405.2	2407.5
37.5°	2292.7	2276.4	2262.5	2248.6	2255.5
40°	2138.4	2119.9	2101.3	2092.0	2088.6
42.5°	1972.6	1958.6	1950.6	1916.9	1908.9
45°	1809.1	1797.5	1784.8	1740.6	1714.0
47.5°	1642.1	1639.8	1629.4	1551.6	1525.0
50°	1486.7	1483.2	1446.1	1363.8	1337.1
52.5°	1339.4	1316.2	1267.6	1186.4	1181.7
55°	1191.0	1153.9	1084.3	1031.0	1028.6
57.5°	1034.4	990.4	919.6	890.6	905.7
60°	909.2	841.9	760.8	764.2	788.5
62.5°	779.3	703.9	623.9	658.7	687.7
65°	670.3	590.3	505.6	574.0	613.4
67.5°	575.2	501.0	419.8	511.4	549.7
70°	496.3	436.0	357.2	453.4	496.3
72.5°	433.7	378.1	316.6	407.0	456.9
75°	375.7	325.9	287.6	358.4	414.0
77.5°	325.9	277.2	259.8	316.6	371.1
80°	273.7	229.6	227.3	276.0	316.6
82.5°	213.4	183.3	183.3	230.7	255.2
85°	150.8	132.2	128.7	168.1	170.5
87.5°	77.7	74.2	67.3	88.2	88.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)