

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: P219107

Luminaire Tested: **24GR-LD5-85-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219107
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-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7367.3 lumens
Efficiency: N/A
Efficacy: 104.7 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

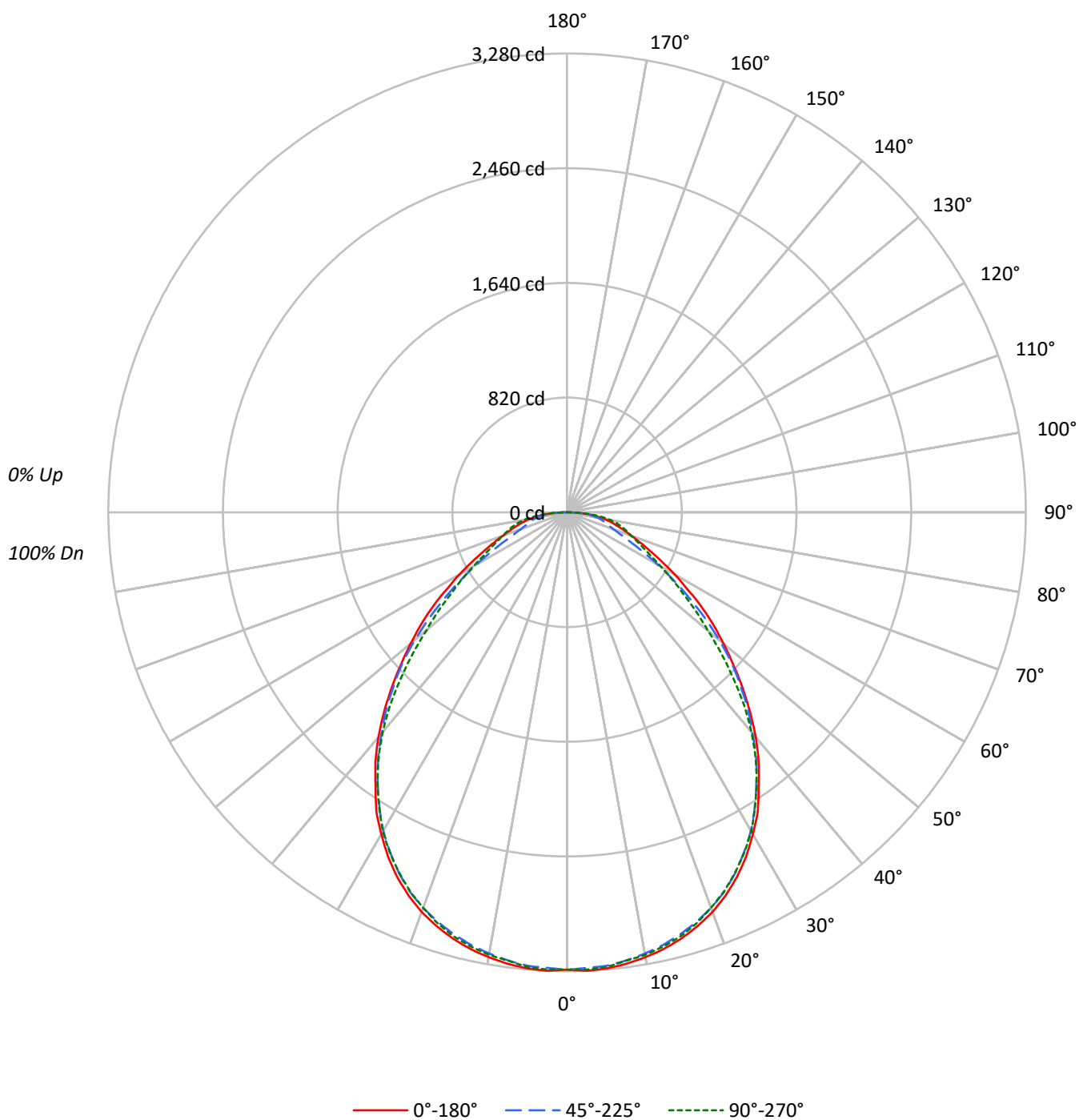
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5007	5007	5007
5°	5031	5003	5015
10°	5022	4981	4995
15°	5003	4952	4974
20°	4955	4905	4903
25°	4859	4807	4803
30°	4698	4650	4660
35°	4463	4412	4418
40°	4196	4124	4099
45°	3846	3794	3644
50°	3477	3382	3127
55°	3121	2842	2696
60°	2733	2287	2371
65°	2384	1798	2182
70°	2181	1570	2181
75°	2182	1671	2404
80°	2369	1967	2740
85°	2601	2220	2940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	4.2
10°-20°	883.4	12.0
20°-30°	1309.9	17.8
30°-40°	1477.7	20.1
40°-50°	1338.4	18.2
50°-60°	965.5	13.1
60°-70°	576.5	7.8
70°-80°	356.3	4.8
80°-90°	150.1	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°	2502.8	34.0
0°-40°	3980.5	54.0
0°-60°	6284.4	85.3
0°-90°	7367.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7367.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3269	3269	3269	3269	3269	
5°	3272	3268	3254	3251	3262	311
15°	3155	3136	3123	3124	3137	889
25°	2875	2859	2844	2834	2842	1321
35°	2387	2383	2359	2360	2363	1493
45°	1776	1764	1752	1708	1682	1368
55°	1169	1132	1064	1012	1010	1043
65°	658	579	496	563	602	662
75°	369	320	282	352	406	394
85°	148	130	126	165	167	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3280.2	3271.1	3259.7	3266.5	3272.2
5°	3272.2	3267.7	3254.0	3250.6	3262.0
7.5°	3255.2	3243.8	3231.2	3236.9	3232.4
10°	3229.0	3218.7	3202.8	3203.9	3211.9
12.5°	3197.1	3184.5	3167.5	3172.0	3178.9
15°	3154.9	3135.6	3123.1	3124.3	3136.8
17.5°	3101.5	3086.7	3070.7	3074.2	3079.9
20°	3040.0	3032.0	3009.3	3002.5	3008.2
22.5°	2962.6	2947.8	2935.3	2931.9	2933.0
25°	2875.0	2859.1	2844.3	2834.0	2842.0
27.5°	2772.5	2758.9	2739.5	2736.2	2743.0
30°	2656.4	2646.2	2629.1	2624.6	2634.8
32.5°	2538.1	2521.0	2497.1	2497.1	2499.4
35°	2386.7	2383.3	2359.4	2360.5	2362.8
37.5°	2250.1	2234.2	2220.5	2206.9	2213.7
40°	2098.7	2080.5	2062.4	2053.3	2049.9
42.5°	1936.0	1922.4	1914.4	1881.4	1873.4
45°	1775.6	1764.2	1751.6	1708.4	1682.2
47.5°	1611.6	1609.4	1599.1	1522.9	1496.7
50°	1459.1	1455.7	1419.2	1338.5	1312.3
52.5°	1314.6	1291.8	1244.0	1164.3	1159.8
55°	1168.9	1132.5	1064.2	1011.8	1009.5
57.5°	1015.2	972.0	902.5	874.1	888.9
60°	892.3	826.3	746.6	750.0	773.9
62.5°	764.8	690.9	612.3	646.5	674.9
65°	657.8	579.4	496.2	563.4	602.1
67.5°	564.5	491.7	412.0	501.9	539.5
70°	487.1	428.0	350.5	445.1	487.1
72.5°	425.7	371.0	310.7	399.5	448.5
75°	368.7	319.9	282.3	351.7	406.3
77.5°	319.9	272.0	254.9	310.7	364.2
80°	268.6	225.3	223.0	270.9	310.7
82.5°	209.4	179.9	179.9	226.5	250.4
85°	148.0	129.7	126.3	165.1	167.3
87.5°	76.2	72.8	66.0	86.5	86.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)