

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: P219106

Luminaire Tested: **24GR-LD5-72-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219106
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-LD5-72-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: 6240.8 lumens
Efficiency: N/A
Efficacy: 111.3 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

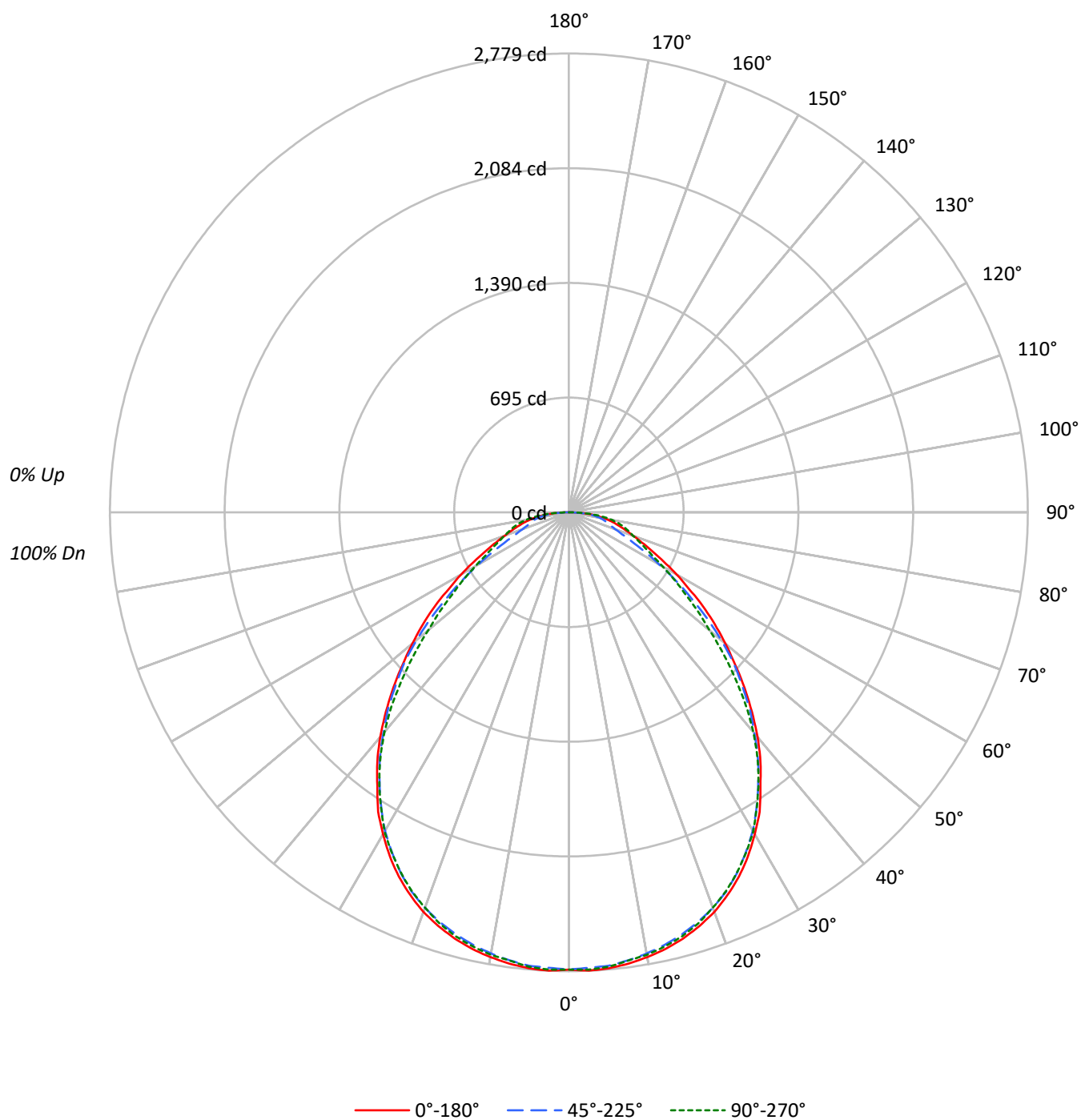
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	4241	4241	4241
5°	4262	4238	4248
10°	4254	4219	4232
15°	4238	4195	4213
20°	4197	4155	4153
25°	4116	4072	4068
30°	3980	3939	3947
35°	3780	3737	3742
40°	3555	3493	3472
45°	3258	3214	3086
50°	2945	2865	2649
55°	2644	2407	2284
60°	2316	1938	2008
65°	2020	1523	1848
70°	1848	1330	1848
75°	1849	1415	2037
80°	2007	1667	2321
85°	2204	1880	2490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	4.2
10°-20°	748.3	12.0
20°-30°	1109.6	17.8
30°-40°	1251.7	20.1
40°-50°	1133.7	18.2
50°-60°	817.9	13.1
60°-70°	488.4	7.8
70°-80°	301.8	4.8
80°-90°	127.1	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°	2120.1	34.0
0°-40°	3371.8	54.0
0°-60°	5323.4	85.3
0°-90°	6240.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6240.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2769	2769	2769	2769	2769	
5°	2772	2768	2756	2754	2763	263
15°	2673	2656	2646	2646	2657	753
25°	2435	2422	2409	2401	2407	1119
35°	2022	2019	1999	2000	2002	1265
45°	1504	1494	1484	1447	1425	1159
55°	990	959	901	857	855	884
65°	557	491	420	477	510	561
75°	312	271	239	298	344	334
85°	125	110	107	140	142	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2769.0	2769.0	2769.0	2769.0	2769.0
2.5°	2778.6	2770.9	2761.2	2767.0	2771.8
5°	2771.8	2768.0	2756.4	2753.5	2763.2
7.5°	2757.4	2747.7	2737.2	2741.9	2738.1
10°	2735.2	2726.5	2713.0	2714.0	2720.8
12.5°	2708.2	2697.6	2683.1	2687.0	2692.8
15°	2672.6	2656.2	2645.5	2646.5	2657.1
17.5°	2627.3	2614.7	2601.2	2604.1	2608.9
20°	2575.2	2568.4	2549.2	2543.4	2548.1
22.5°	2509.6	2497.0	2486.5	2483.6	2484.5
25°	2435.3	2421.9	2409.3	2400.7	2407.4
27.5°	2348.6	2337.0	2320.7	2317.8	2323.6
30°	2250.3	2241.6	2227.1	2223.3	2231.9
32.5°	2150.0	2135.5	2115.3	2115.3	2117.2
35°	2021.7	2018.8	1998.6	1999.6	2001.5
37.5°	1906.0	1892.5	1881.0	1869.4	1875.2
40°	1777.9	1762.4	1747.0	1739.3	1736.4
42.5°	1640.0	1628.4	1621.6	1593.7	1587.0
45°	1504.0	1494.4	1483.8	1447.1	1424.9
47.5°	1365.2	1363.2	1354.6	1290.0	1267.9
50°	1236.0	1233.1	1202.2	1133.8	1111.6
52.5°	1113.6	1094.3	1053.7	986.3	982.4
55°	990.2	959.3	901.4	857.1	855.2
57.5°	860.0	823.4	764.6	740.4	753.0
60°	755.9	700.0	632.5	635.4	655.6
62.5°	647.9	585.2	518.7	547.7	571.7
65°	557.3	490.7	420.3	477.3	510.0
67.5°	478.2	416.5	349.0	425.2	457.0
70°	412.7	362.5	297.0	377.0	412.7
72.5°	360.6	314.3	263.2	338.4	379.9
75°	312.4	270.9	239.1	297.9	344.2
77.5°	270.9	230.4	216.0	263.2	308.6
80°	227.5	190.9	189.0	229.5	263.2
82.5°	177.4	152.3	152.3	191.8	212.1
85°	125.4	109.9	107.0	139.8	141.7
87.5°	64.6	61.7	55.9	73.3	73.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)