

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: P219121

Luminaire Tested: **24GR-LD5-72-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219121
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-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6421.2 lumens
Efficiency: N/A
Efficacy: 114.5 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

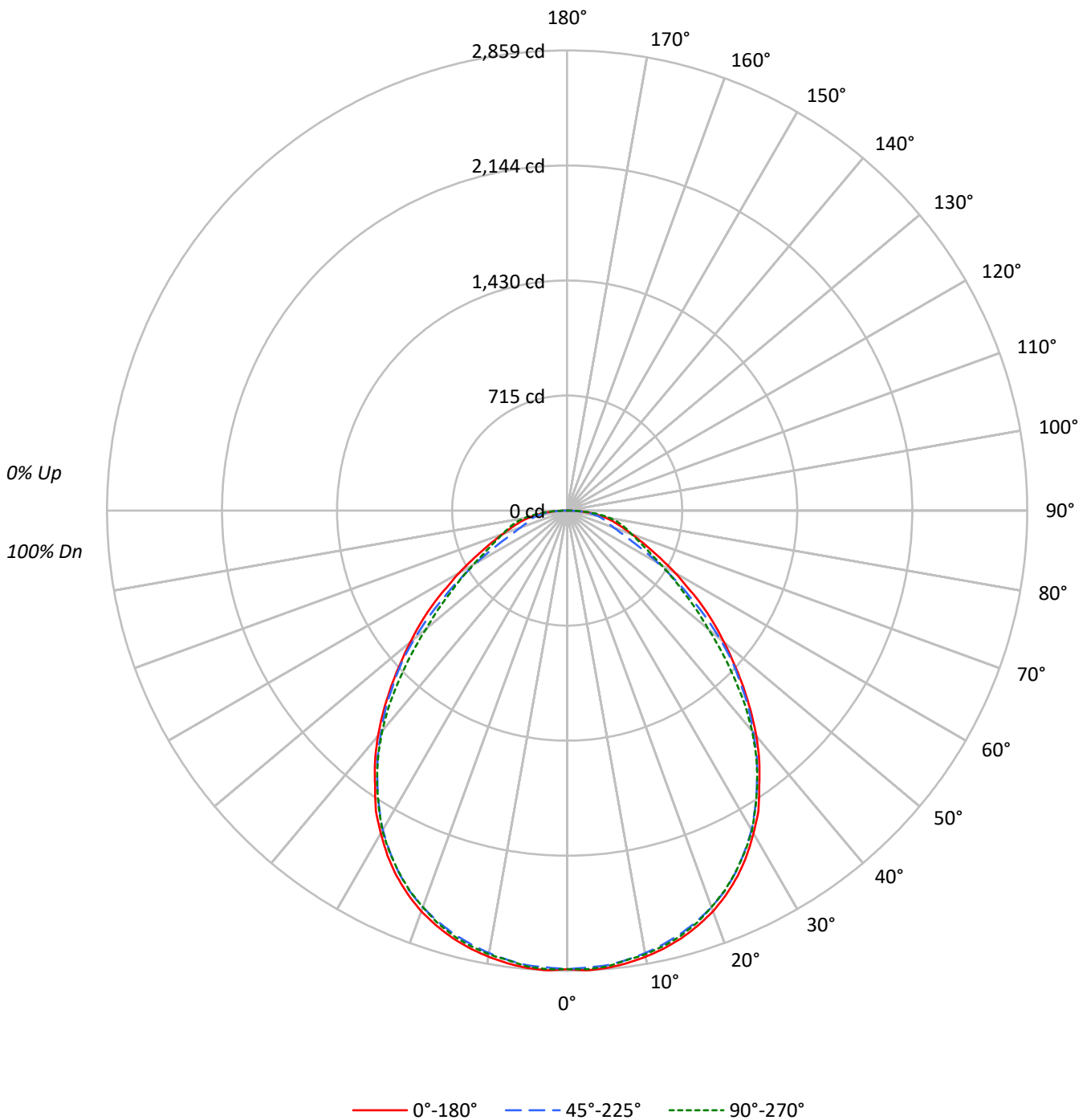
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4364	4364	4364
5°	4385	4360	4371
10°	4377	4341	4354
15°	4360	4316	4335
20°	4319	4275	4273
25°	4235	4189	4186
30°	4095	4053	4062
35°	3890	3845	3851
40°	3657	3594	3572
45°	3352	3307	3176
50°	3030	2948	2725
55°	2721	2477	2350
60°	2382	1994	2066
65°	2078	1567	1902
70°	1901	1369	1901
75°	1902	1456	2095
80°	2065	1715	2389
85°	2267	1935	2564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	4.2
10°-20°	769.9	12.0
20°-30°	1141.7	17.8
30°-40°	1287.9	20.1
40°-50°	1166.5	18.2
50°-60°	841.5	13.1
60°-70°	502.5	7.8
70°-80°	310.6	4.8
80°-90°	130.8	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°	2181.4	34.0
0°-40°	3469.3	54.0
0°-60°	5477.3	85.3
0°-90°	6421.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6421.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2849	2849	2849	2849	2849	
5°	2852	2848	2836	2833	2843	271
15°	2750	2733	2722	2723	2734	775
25°	2506	2492	2479	2470	2477	1151
35°	2080	2077	2056	2057	2059	1302
45°	1548	1538	1527	1489	1466	1193
55°	1019	987	928	882	880	909
65°	573	505	432	491	525	577
75°	321	279	246	306	354	343
85°	129	113	110	144	146	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2849.0	2849.0	2849.0	2849.0	2849.0
2.5°	2858.9	2851.0	2841.1	2847.0	2852.0
5°	2852.0	2848.1	2836.1	2833.1	2843.1
7.5°	2837.1	2827.2	2816.2	2821.2	2817.3
10°	2814.3	2805.4	2791.5	2792.5	2799.4
12.5°	2786.5	2775.6	2760.7	2764.7	2770.7
15°	2749.8	2732.9	2722.1	2723.0	2733.9
17.5°	2703.2	2690.3	2676.4	2679.4	2684.3
20°	2649.7	2642.7	2622.8	2616.9	2621.9
22.5°	2582.2	2569.2	2558.3	2555.4	2556.4
25°	2505.8	2491.9	2479.0	2470.1	2477.0
27.5°	2416.5	2404.6	2387.7	2384.8	2390.7
30°	2315.3	2306.3	2291.5	2287.5	2296.5
32.5°	2212.2	2197.3	2176.4	2176.4	2178.4
35°	2080.3	2077.2	2056.4	2057.4	2059.4
37.5°	1961.1	1947.3	1935.3	1923.5	1929.4
40°	1829.2	1813.4	1797.5	1789.6	1786.6
42.5°	1687.4	1675.5	1668.6	1639.8	1632.8
45°	1547.5	1537.6	1526.7	1489.0	1466.1
47.5°	1404.6	1402.7	1393.7	1327.3	1304.4
50°	1271.8	1268.8	1237.0	1166.6	1143.8
52.5°	1145.8	1125.9	1084.3	1014.8	1010.8
55°	1018.8	987.0	927.5	881.8	879.9
57.5°	884.9	847.2	786.6	761.9	774.8
60°	777.7	720.2	650.8	653.7	674.6
62.5°	666.6	602.2	533.7	563.5	588.2
65°	573.4	504.9	432.5	491.1	524.8
67.5°	492.0	428.5	359.1	437.5	470.2
70°	424.6	373.0	305.6	387.9	424.6
72.5°	371.0	323.4	270.8	348.2	390.9
75°	321.4	278.7	246.0	306.5	354.1
77.5°	278.7	237.1	222.2	270.8	317.4
80°	234.1	196.4	194.4	236.1	270.8
82.5°	182.5	156.8	156.8	197.4	218.3
85°	129.0	113.1	110.1	143.9	145.9
87.5°	66.5	63.5	57.5	75.4	75.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)