

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: P219136

Luminaire Tested: **24GR-LD5-72-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219136
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-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6794.5 lumens
Efficiency: N/A
Efficacy: 121.2 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

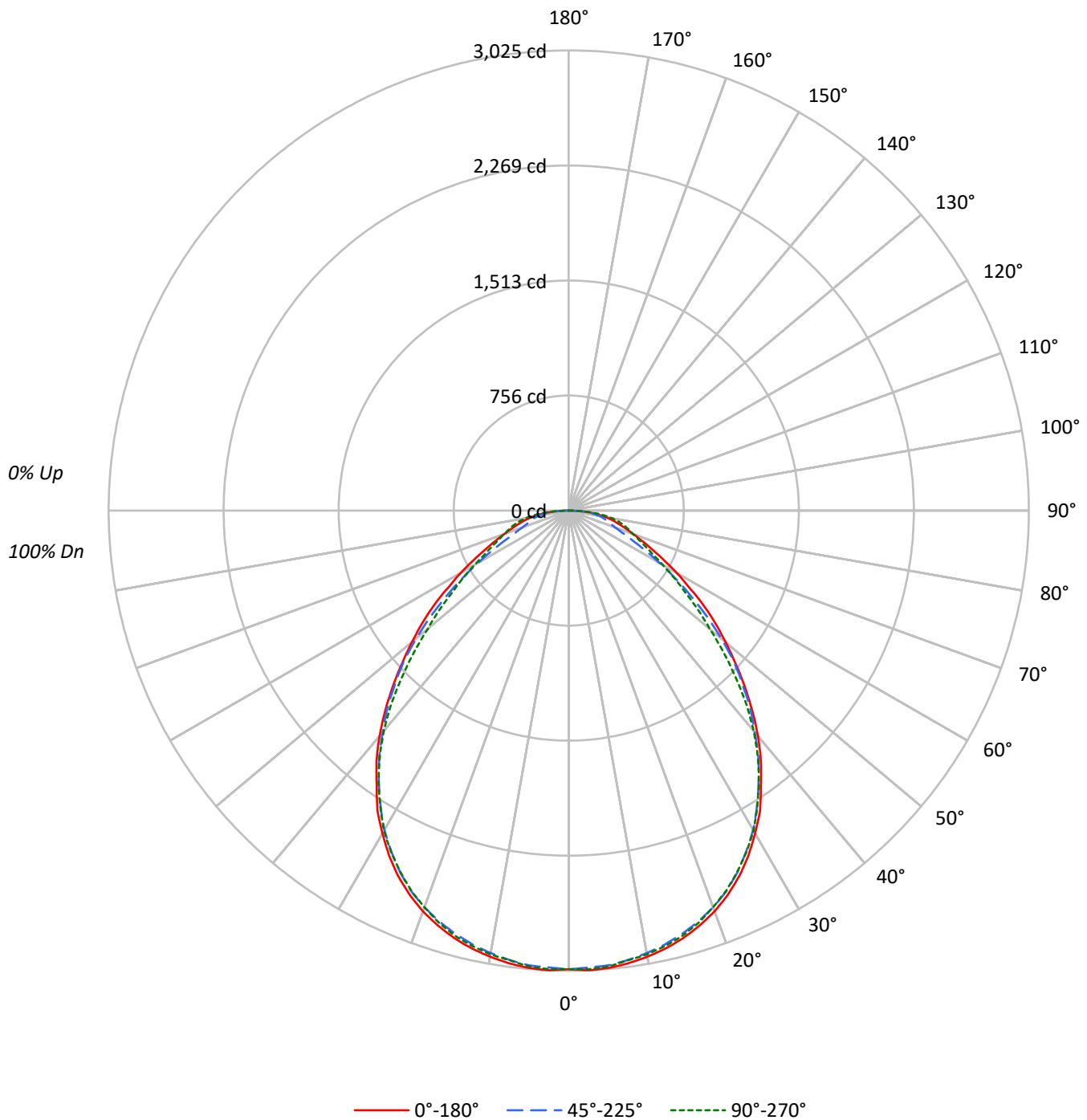
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4617	4617	4617
5°	4640	4614	4625
10°	4631	4594	4607
15°	4614	4567	4587
20°	4570	4524	4522
25°	4481	4433	4429
30°	4333	4288	4298
35°	4116	4069	4074
40°	3870	3803	3780
45°	3547	3499	3360
50°	3207	3119	2884
55°	2879	2621	2486
60°	2521	2109	2187
65°	2199	1658	2012
70°	2012	1448	2012
75°	2013	1541	2217
80°	2185	1815	2528
85°	2399	2047	2712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	4.2
10°-20°	814.7	12.0
20°-30°	1208.0	17.8
30°-40°	1362.8	20.1
40°-50°	1234.3	18.2
50°-60°	890.5	13.1
60°-70°	531.7	7.8
70°-80°	328.6	4.8
80°-90°	138.4	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°	2308.2	34.0
0°-40°	3671.0	54.0
0°-60°	5795.8	85.3
0°-90°	6794.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6794.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3015	3015	3015	3015	3015	
5°	3018	3014	3001	2998	3008	287
15°	2910	2892	2880	2881	2893	820
25°	2652	2637	2623	2614	2621	1218
35°	2201	2198	2176	2177	2179	1377
45°	1638	1627	1615	1576	1551	1262
55°	1078	1044	981	933	931	962
65°	607	534	458	520	555	610
75°	340	295	260	324	375	363
85°	136	120	116	152	154	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3014.6	3014.6	3014.6	3014.6	3014.6
2.5°	3025.1	3016.7	3006.3	3012.6	3017.8
5°	3017.8	3013.6	3001.0	2997.8	3008.4
7.5°	3002.1	2991.5	2980.0	2985.3	2981.1
10°	2977.9	2968.5	2953.8	2954.9	2962.1
12.5°	2948.5	2936.9	2921.2	2925.5	2931.7
15°	2909.7	2891.8	2880.3	2881.3	2892.9
17.5°	2860.3	2846.7	2832.0	2835.2	2840.4
20°	2803.7	2796.3	2775.3	2769.0	2774.3
22.5°	2732.3	2718.6	2707.1	2704.0	2705.0
25°	2651.5	2636.8	2623.2	2613.7	2621.0
27.5°	2557.0	2544.4	2526.5	2523.4	2529.7
30°	2449.9	2440.4	2424.7	2420.5	2430.0
32.5°	2340.8	2325.0	2302.9	2302.9	2305.0
35°	2201.2	2198.0	2176.0	2177.0	2179.1
37.5°	2075.2	2060.5	2047.9	2035.3	2041.6
40°	1935.6	1918.8	1902.0	1893.6	1890.4
42.5°	1785.5	1772.9	1765.6	1735.1	1727.7
45°	1637.5	1627.0	1615.4	1575.6	1551.4
47.5°	1486.3	1484.2	1474.7	1404.5	1380.3
50°	1345.7	1342.5	1308.9	1234.4	1210.3
52.5°	1212.4	1191.4	1147.3	1073.8	1069.6
55°	1078.0	1044.4	981.4	933.1	931.0
57.5°	936.3	896.4	832.4	806.2	819.8
60°	822.9	762.0	688.6	691.7	713.8
62.5°	705.3	637.2	564.7	596.2	622.4
65°	606.7	534.3	457.6	519.6	555.3
67.5°	520.6	453.5	380.0	462.9	497.6
70°	449.3	394.7	323.3	410.4	449.3
72.5°	392.6	342.2	286.6	368.5	413.6
75°	340.1	294.9	260.4	324.3	374.7
77.5°	294.9	250.9	235.1	286.6	335.9
80°	247.7	207.8	205.8	249.8	286.6
82.5°	193.1	165.9	165.9	208.8	231.0
85°	136.5	119.7	116.5	152.2	154.3
87.5°	70.3	67.2	60.9	79.8	79.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)