

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: P219134

Luminaire Tested: **24GR-LD5-56-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219134
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-LD5-56-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: 5260.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

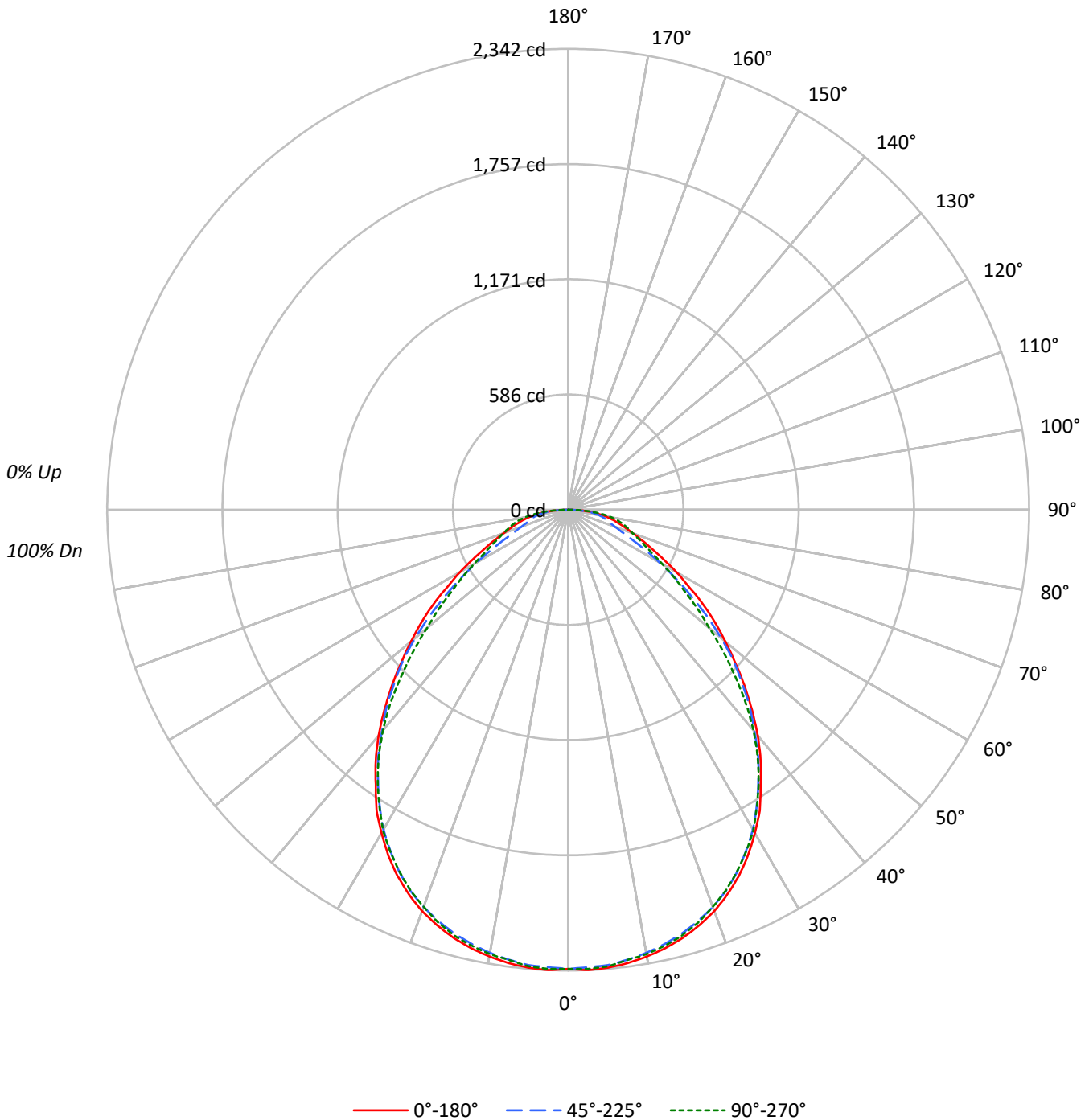
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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°	3575	3575	3575
5°	3592	3572	3581
10°	3585	3556	3567
15°	3572	3536	3551
20°	3538	3502	3501
25°	3469	3432	3429
30°	3354	3320	3327
35°	3186	3150	3154
40°	2996	2944	2926
45°	2746	2709	2601
50°	2482	2414	2232
55°	2229	2029	1925
60°	1952	1633	1693
65°	1702	1284	1558
70°	1558	1120	1558
75°	1558	1193	1717
80°	1691	1404	1957
85°	1858	1585	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	4.2
10°-20°	630.7	12.0
20°-30°	935.2	17.8
30°-40°	1055.0	20.1
40°-50°	955.5	18.2
50°-60°	689.4	13.1
60°-70°	411.6	7.8
70°-80°	254.4	4.8
80°-90°	107.2	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°	1786.9	34.0
0°-40°	2841.9	54.0
0°-60°	4486.8	85.3
0°-90°	5260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2334	2334	2334	2334	2334	
5°	2336	2333	2323	2321	2329	222
15°	2252	2239	2230	2231	2240	635
25°	2053	2041	2031	2023	2029	943
35°	1704	1702	1684	1685	1687	1066
45°	1268	1260	1251	1220	1201	977
55°	835	808	760	722	721	745
65°	470	414	354	402	430	472
75°	263	228	202	251	290	281
85°	106	93	90	118	120	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2333.8	2333.8	2333.8	2333.8	2333.8
2.5°	2341.9	2335.4	2327.3	2332.1	2336.2
5°	2336.2	2333.0	2323.2	2320.8	2328.9
7.5°	2324.0	2316.0	2306.9	2311.0	2307.8
10°	2305.4	2298.0	2286.6	2287.5	2293.2
12.5°	2282.6	2273.6	2261.4	2264.7	2269.6
15°	2252.5	2238.7	2229.8	2230.6	2239.5
17.5°	2214.3	2203.7	2192.4	2194.8	2198.9
20°	2170.4	2164.8	2148.5	2143.7	2147.7
22.5°	2115.2	2104.6	2095.7	2093.3	2094.1
25°	2052.6	2041.2	2030.7	2023.4	2029.0
27.5°	1979.5	1969.8	1956.0	1953.5	1958.4
30°	1896.6	1889.3	1877.1	1873.9	1881.2
32.5°	1812.1	1799.9	1782.9	1782.9	1784.5
35°	1704.1	1701.6	1684.5	1685.3	1687.0
37.5°	1606.5	1595.1	1585.4	1575.7	1580.5
40°	1498.4	1485.4	1472.5	1465.9	1463.5
42.5°	1382.2	1372.5	1366.8	1343.3	1337.5
45°	1267.6	1259.5	1250.6	1219.7	1201.0
47.5°	1150.6	1149.1	1141.7	1087.3	1068.6
50°	1041.8	1039.3	1013.3	955.6	936.9
52.5°	938.6	922.3	888.2	831.3	828.0
55°	834.6	808.5	759.8	722.4	720.8
57.5°	724.8	694.0	644.4	624.1	634.6
60°	637.1	590.0	533.1	535.5	552.6
62.5°	546.1	493.2	437.2	461.6	481.8
65°	469.7	413.6	354.3	402.2	429.9
67.5°	403.0	351.1	294.2	358.4	385.2
70°	347.8	305.6	250.2	317.8	347.8
72.5°	303.9	264.9	221.9	285.2	320.1
75°	263.3	228.3	201.6	251.1	290.1
77.5°	228.3	194.2	182.0	221.9	260.0
80°	191.7	160.9	159.2	193.4	221.9
82.5°	149.5	128.4	128.4	161.7	178.8
85°	105.7	92.6	90.2	117.8	119.5
87.5°	54.4	52.0	47.1	61.8	61.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)