

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: P219120

Luminaire Tested: **24GR-LD5-64-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219120
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-LD5-64-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: 5717.7 lumens
Efficiency: N/A
Efficacy: 118.8 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

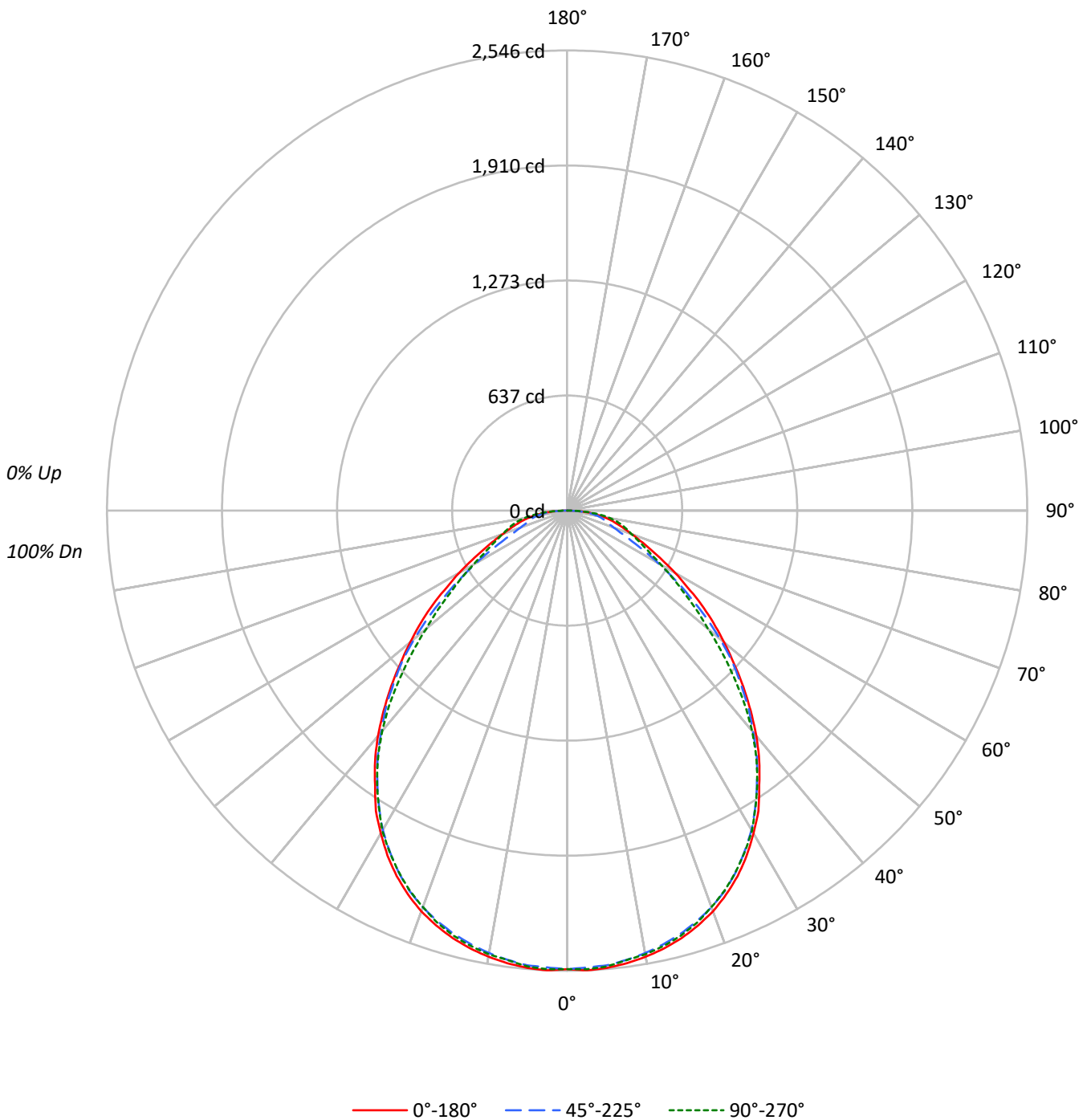
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3886	3886	3886
5°	3905	3883	3892
10°	3897	3866	3877
15°	3883	3843	3860
20°	3845	3807	3805
25°	3771	3730	3727
30°	3646	3609	3617
35°	3464	3424	3429
40°	3257	3200	3181
45°	2985	2945	2828
50°	2698	2625	2427
55°	2423	2205	2092
60°	2122	1775	1840
65°	1850	1396	1693
70°	1693	1219	1693
75°	1694	1296	1866
80°	1839	1527	2127
85°	2017	1722	2283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	4.2
10°-20°	685.6	12.0
20°-30°	1016.6	17.8
30°-40°	1146.8	20.1
40°-50°	1038.7	18.2
50°-60°	749.4	13.1
60°-70°	447.4	7.8
70°-80°	276.5	4.8
80°-90°	116.5	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°	1942.4	34.0
0°-40°	3089.2	54.0
0°-60°	4877.3	85.3
0°-90°	5717.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5717.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2540	2536	2525	2523	2532	241
15°	2449	2434	2424	2425	2434	690
25°	2231	2219	2207	2199	2206	1025
35°	1852	1850	1831	1832	1834	1159
45°	1378	1369	1359	1326	1306	1062
55°	907	879	826	785	784	810
65°	511	450	385	437	467	514
75°	286	248	219	273	315	306
85°	115	101	98	128	130	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2536.9	2536.9	2536.9	2536.9	2536.9
2.5°	2545.8	2538.6	2529.9	2535.1	2539.6
5°	2539.6	2536.1	2525.4	2522.8	2531.6
7.5°	2526.3	2517.5	2507.8	2512.1	2508.6
10°	2506.0	2498.0	2485.7	2486.5	2492.7
12.5°	2481.3	2471.6	2458.3	2461.8	2467.1
15°	2448.6	2433.5	2423.8	2424.7	2434.4
17.5°	2407.1	2395.5	2383.2	2385.9	2390.3
20°	2359.3	2353.1	2335.5	2330.2	2334.6
22.5°	2299.3	2287.8	2278.1	2275.5	2276.3
25°	2231.3	2218.9	2207.4	2199.4	2205.6
27.5°	2151.8	2141.1	2126.2	2123.5	2128.8
30°	2061.7	2053.8	2040.4	2036.9	2044.9
32.5°	1969.8	1956.6	1938.0	1938.0	1939.8
35°	1852.4	1849.7	1831.1	1832.0	1833.8
37.5°	1746.3	1733.9	1723.4	1712.8	1718.0
40°	1628.8	1614.7	1600.5	1593.5	1590.8
42.5°	1502.5	1491.9	1485.7	1460.1	1453.9
45°	1378.0	1369.1	1359.4	1325.9	1305.6
47.5°	1250.8	1249.0	1241.1	1181.9	1161.6
50°	1132.4	1129.8	1101.5	1038.8	1018.5
52.5°	1020.2	1002.6	965.4	903.6	900.1
55°	907.2	878.9	825.9	785.3	783.5
57.5°	787.9	754.4	700.5	678.4	689.9
60°	692.6	641.3	579.5	582.1	600.6
62.5°	593.6	536.2	475.2	501.7	523.8
65°	510.6	449.6	385.1	437.2	467.2
67.5°	438.2	381.6	319.7	389.6	418.7
70°	378.1	332.1	272.1	345.4	378.1
72.5°	330.3	287.9	241.1	310.0	348.0
75°	286.2	248.2	219.0	273.0	315.4
77.5°	248.2	211.1	197.9	241.1	282.7
80°	208.5	174.9	173.1	210.3	241.1
82.5°	162.5	139.6	139.6	175.8	194.4
85°	114.8	100.7	98.0	128.1	129.9
87.5°	59.2	56.5	51.3	67.2	67.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)