

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: P219118

Luminaire Tested: **24GR-LD5-48-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219118
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-LD5-48-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: 4265.8 lumens
Efficiency: N/A
Efficacy: 113.8 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

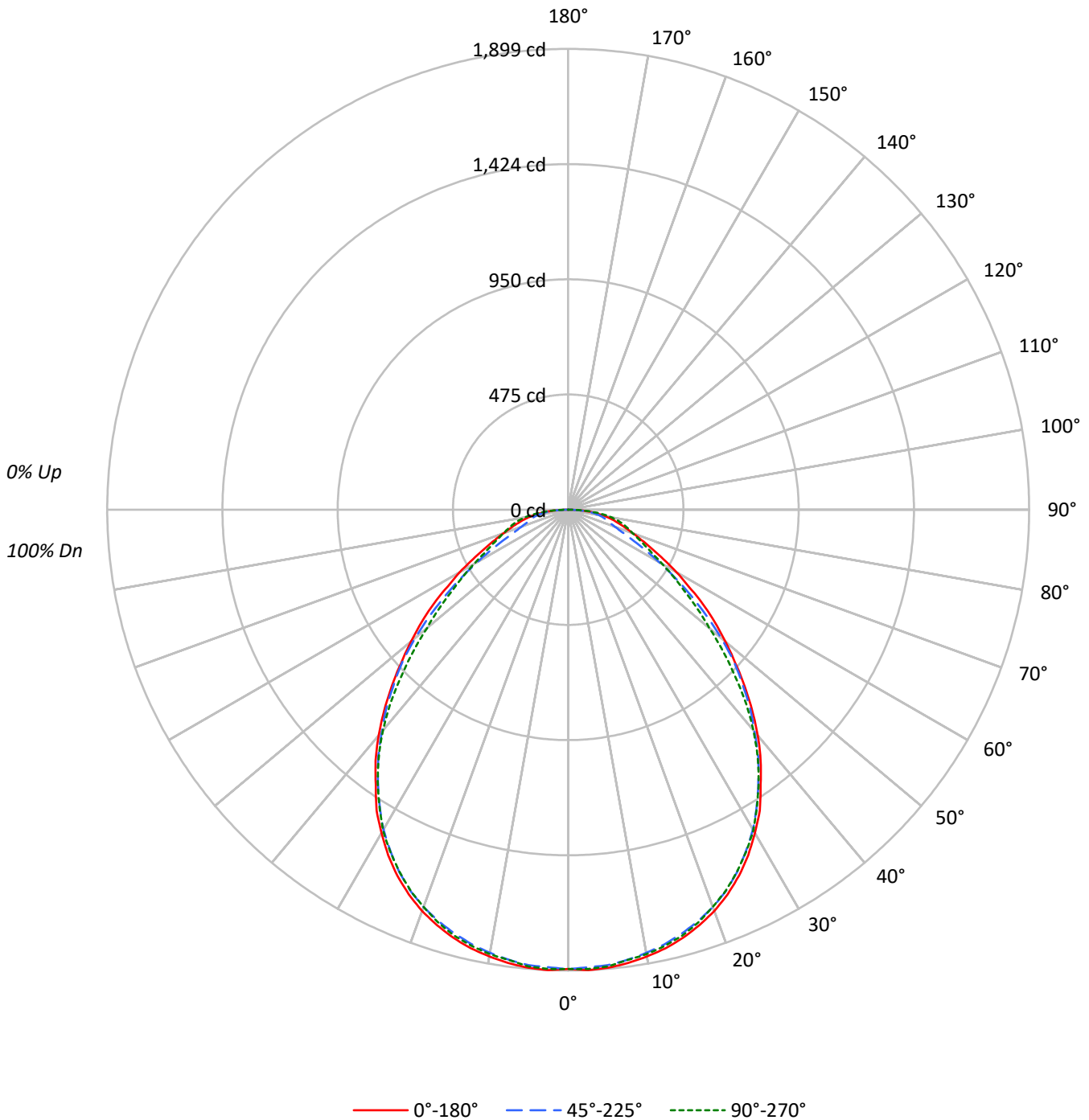
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2899	2899	2899
5°	2913	2897	2904
10°	2908	2884	2892
15°	2897	2867	2880
20°	2869	2840	2839
25°	2813	2783	2781
30°	2720	2692	2698
35°	2584	2554	2558
40°	2430	2387	2373
45°	2227	2197	2110
50°	2013	1958	1810
55°	1807	1645	1561
60°	1583	1324	1373
65°	1380	1041	1263
70°	1263	909	1263
75°	1263	967	1392
80°	1372	1140	1587
85°	1506	1286	1701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	4.2
10°-20°	511.5	12.0
20°-30°	758.4	17.8
30°-40°	855.6	20.1
40°-50°	774.9	18.2
50°-60°	559.1	13.1
60°-70°	333.8	7.8
70°-80°	206.3	4.8
80°-90°	86.9	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°	1449.2	34.0
0°-40°	2304.7	54.0
0°-60°	3638.7	85.3
0°-90°	4265.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4265.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1893	1893	1893	1893	1893	
5°	1895	1892	1884	1882	1889	180
15°	1827	1816	1808	1809	1816	515
25°	1665	1655	1647	1641	1646	765
35°	1382	1380	1366	1367	1368	865
45°	1028	1021	1014	989	974	792
55°	677	656	616	586	584	604
65°	381	335	287	326	349	383
75°	214	185	163	204	235	228
85°	86	75	73	96	97	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1892.7	1892.7	1892.7	1892.7	1892.7
2.5°	1899.2	1894.0	1887.4	1891.3	1894.7
5°	1894.7	1892.0	1884.1	1882.1	1888.7
7.5°	1884.8	1878.2	1870.9	1874.2	1871.6
10°	1869.6	1863.7	1854.4	1855.1	1859.8
12.5°	1851.2	1843.9	1834.0	1836.6	1840.6
15°	1826.7	1815.5	1808.3	1809.0	1816.2
17.5°	1795.8	1787.3	1778.0	1779.9	1783.3
20°	1760.2	1755.6	1742.4	1738.5	1741.8
22.5°	1715.4	1706.8	1699.6	1697.6	1698.2
25°	1664.6	1655.4	1646.9	1641.0	1645.5
27.5°	1605.4	1597.4	1586.3	1584.3	1588.2
30°	1538.1	1532.2	1522.3	1519.7	1525.6
32.5°	1469.6	1459.7	1445.8	1445.8	1447.2
35°	1381.9	1380.0	1366.1	1366.8	1368.1
37.5°	1302.8	1293.6	1285.7	1277.8	1281.7
40°	1215.2	1204.7	1194.1	1188.9	1186.9
42.5°	1121.0	1113.1	1108.5	1089.4	1084.7
45°	1028.0	1021.4	1014.2	989.2	974.0
47.5°	933.2	931.8	925.9	881.8	866.6
50°	844.9	842.9	821.8	775.0	759.8
52.5°	761.2	747.9	720.3	674.2	671.5
55°	676.8	655.8	616.2	585.8	584.5
57.5°	587.8	562.8	522.6	506.1	514.7
60°	516.7	478.4	432.3	434.3	448.1
62.5°	442.8	400.0	354.6	374.4	390.8
65°	380.9	335.4	287.3	326.2	348.6
67.5°	326.9	284.7	238.6	290.6	312.4
70°	282.1	247.8	203.0	257.7	282.1
72.5°	246.5	214.8	179.9	231.3	259.6
75°	213.5	185.2	163.4	203.6	235.3
77.5°	185.2	157.5	147.6	179.9	210.9
80°	155.5	130.5	129.2	156.9	179.9
82.5°	121.3	104.1	104.1	131.2	145.0
85°	85.7	75.2	73.2	95.5	96.8
87.5°	44.1	42.1	38.2	50.1	50.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)