

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: P219132

Luminaire Tested: **24GR-LD5-42-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219132
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-LD5-42-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: 4020.3 lumens
Efficiency: N/A
Efficacy: 116.1 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

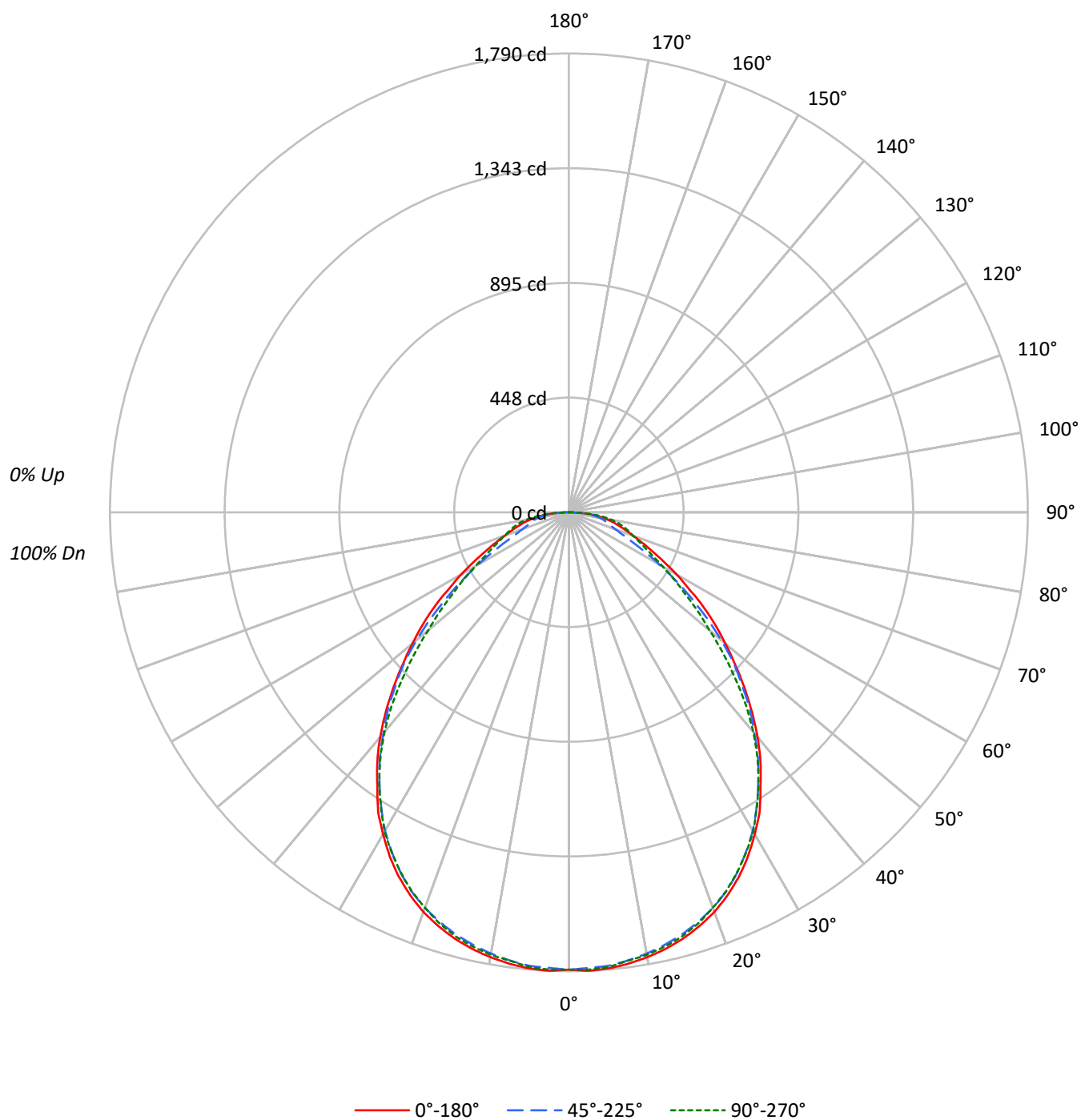
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2732	2732	2732
5°	2745	2730	2737
10°	2740	2718	2726
15°	2730	2702	2714
20°	2704	2677	2676
25°	2651	2623	2621
30°	2564	2537	2543
35°	2435	2408	2411
40°	2290	2250	2237
45°	2099	2071	1988
50°	1897	1845	1706
55°	1703	1551	1471
60°	1491	1248	1294
65°	1301	981	1191
70°	1190	857	1190
75°	1191	912	1313
80°	1293	1074	1495
85°	1418	1213	1604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	4.2
10°-20°	482.1	12.0
20°-30°	714.8	17.8
30°-40°	806.4	20.1
40°-50°	730.3	18.2
50°-60°	526.9	13.1
60°-70°	314.6	7.8
70°-80°	194.4	4.8
80°-90°	81.9	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°	1365.8	34.0
0°-40°	2172.1	54.0
0°-60°	3429.4	85.3
0°-90°	4020.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4020.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1786	1783	1776	1774	1780	170
15°	1722	1711	1704	1705	1712	485
25°	1569	1560	1552	1546	1551	721
35°	1302	1301	1288	1288	1289	815
45°	969	963	956	932	918	747
55°	638	618	581	552	551	569
65°	359	316	271	307	329	361
75°	201	174	154	192	222	215
85°	81	71	69	90	91	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.8	1783.8	1783.8	1783.8	1783.8
2.5°	1790.0	1785.1	1778.8	1782.5	1785.6
5°	1785.6	1783.1	1775.7	1773.9	1780.1
7.5°	1776.3	1770.1	1763.3	1766.4	1763.9
10°	1762.0	1756.5	1747.7	1748.4	1752.8
12.5°	1744.7	1737.8	1728.5	1731.0	1734.7
15°	1721.6	1711.1	1704.2	1704.9	1711.7
17.5°	1692.5	1684.4	1675.7	1677.6	1680.7
20°	1658.9	1654.6	1642.2	1638.5	1641.5
22.5°	1616.7	1608.6	1601.8	1600.0	1600.6
25°	1568.8	1560.2	1552.1	1546.5	1550.9
27.5°	1513.0	1505.5	1494.9	1493.1	1496.9
30°	1449.6	1444.1	1434.7	1432.2	1437.8
32.5°	1385.0	1375.7	1362.7	1362.7	1363.9
35°	1302.4	1300.6	1287.6	1288.1	1289.4
37.5°	1227.9	1219.2	1211.8	1204.3	1208.0
40°	1145.3	1135.3	1125.4	1120.5	1118.6
42.5°	1056.5	1049.0	1044.7	1026.7	1022.3
45°	968.9	962.7	955.9	932.3	918.0
47.5°	879.5	878.2	872.6	831.0	816.7
50°	796.2	794.3	774.5	730.4	716.1
52.5°	717.4	705.0	678.9	635.4	632.9
55°	637.8	618.0	580.8	552.2	550.9
57.5°	554.0	530.4	492.5	477.0	485.0
60°	486.9	450.9	407.4	409.3	422.3
62.5°	417.4	377.0	334.2	352.8	368.3
65°	359.0	316.1	270.8	307.4	328.6
67.5°	308.0	268.3	224.9	273.9	294.4
70°	265.8	233.5	191.3	242.9	265.8
72.5°	232.3	202.5	169.5	218.0	244.7
75°	201.2	174.5	154.1	191.9	221.8
77.5°	174.5	148.4	139.1	169.5	198.7
80°	146.6	122.9	121.8	147.8	169.5
82.5°	114.3	98.1	98.1	123.6	136.7
85°	80.7	70.8	69.0	90.1	91.3
87.5°	41.6	39.8	36.0	47.2	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)