

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: P214454

Luminaire Tested: **24GR4235D**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P214454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR4235D
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: (168) 3500K CCT, 85 CRI LEDs
Ballast/Driver: -

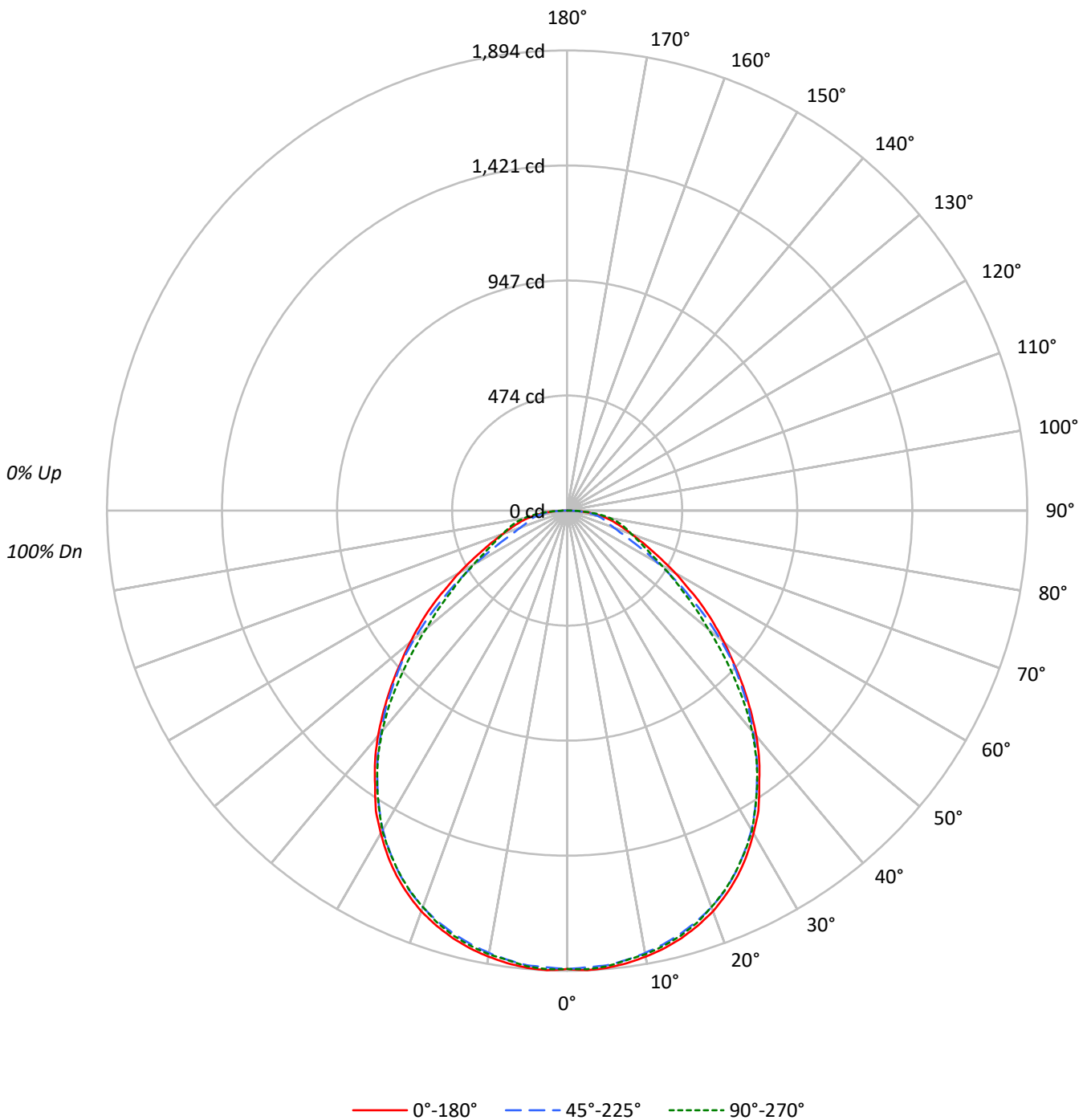
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253.3 lumens
Efficiency: N/A
Efficacy: 141.3 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): 30.1
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	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°	2890	2890	2890
5°	2904	2888	2895
10°	2899	2876	2884
15°	2888	2859	2871
20°	2861	2832	2831
25°	2805	2775	2773
30°	2712	2685	2690
35°	2576	2547	2551
40°	2423	2380	2366
45°	2220	2190	2104
50°	2007	1952	1805
55°	1802	1641	1556
60°	1578	1320	1369
65°	1376	1038	1260
70°	1259	906	1259
75°	1260	965	1388
80°	1368	1136	1582
85°	1501	1281	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	4.2
10°-20°	510.0	12.0
20°-30°	756.2	17.8
30°-40°	853.1	20.1
40°-50°	772.7	18.2
50°-60°	557.4	13.1
60°-70°	332.8	7.8
70°-80°	205.7	4.8
80°-90°	86.7	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°	1444.9	34.0
0°-40°	2298.0	54.0
0°-60°	3628.1	85.3
0°-90°	4253.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1887	1887	1887	1887	1887	
5°	1889	1886	1879	1877	1883	179
15°	1821	1810	1803	1804	1811	513
25°	1660	1651	1642	1636	1641	762
35°	1378	1376	1362	1363	1364	862
45°	1025	1018	1011	986	971	790
55°	675	654	614	584	583	602
65°	380	334	286	325	348	382
75°	213	185	163	203	235	227
85°	85	75	73	95	97	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.1	1887.1	1887.1	1887.1	1887.1
2.5°	1893.7	1888.4	1881.9	1885.8	1889.1
5°	1889.1	1886.5	1878.6	1876.6	1883.2
7.5°	1879.2	1872.7	1865.4	1868.7	1866.1
10°	1864.1	1858.2	1849.0	1849.7	1854.3
12.5°	1845.7	1838.5	1828.7	1831.3	1835.2
15°	1821.4	1810.3	1803.0	1803.7	1810.9
17.5°	1790.5	1782.0	1772.8	1774.8	1778.1
20°	1755.1	1750.5	1737.3	1733.4	1736.7
22.5°	1710.4	1701.8	1694.6	1692.6	1693.3
25°	1659.8	1650.6	1642.0	1636.1	1640.7
27.5°	1600.6	1592.8	1581.6	1579.6	1583.6
30°	1533.6	1527.7	1517.9	1515.2	1521.1
32.5°	1465.3	1455.4	1441.6	1441.6	1442.9
35°	1377.9	1375.9	1362.1	1362.8	1364.1
37.5°	1299.0	1289.8	1282.0	1274.1	1278.0
40°	1211.7	1201.1	1190.6	1185.4	1183.4
42.5°	1117.7	1109.8	1105.2	1086.2	1081.6
45°	1025.0	1018.5	1011.2	986.3	971.2
47.5°	930.4	929.1	923.2	879.2	864.1
50°	842.4	840.4	819.4	772.7	757.6
52.5°	758.9	745.8	718.2	672.2	669.6
55°	674.8	653.8	614.4	584.1	582.8
57.5°	586.1	561.1	521.1	504.6	513.2
60°	515.2	477.0	431.0	433.0	446.8
62.5°	441.6	398.8	353.5	373.2	389.6
65°	379.8	334.5	286.5	325.3	347.6
67.5°	325.9	283.9	237.9	289.8	311.5
70°	281.2	247.1	202.4	256.9	281.2
72.5°	245.7	214.2	179.4	230.6	258.9
75°	212.9	184.6	163.0	203.0	234.6
77.5°	184.6	157.0	147.2	179.4	210.3
80°	155.1	130.1	128.8	156.4	179.4
82.5°	120.9	103.8	103.8	130.8	144.6
85°	85.4	74.9	72.9	95.3	96.6
87.5°	44.0	42.1	38.1	49.9	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)