

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: P234103

Luminaire Tested: **22GR-LD5-50-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A-UNV-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4226.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

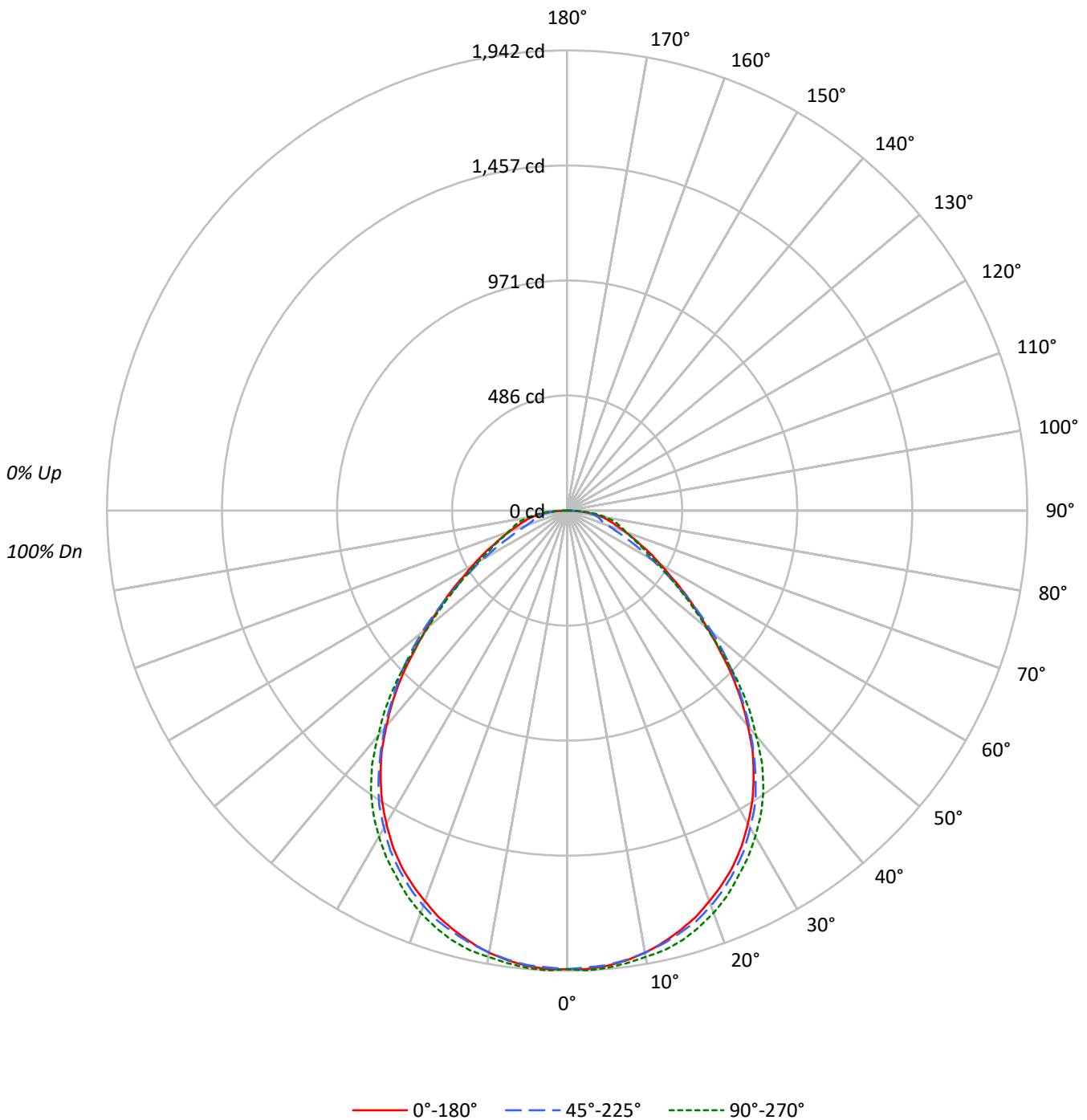
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6198	6198	6198
5°	6200	6190	6228
10°	6163	6159	6220
15°	6084	6117	6224
20°	5979	6049	6157
25°	5852	5918	6026
30°	5640	5717	5873
35°	5363	5425	5644
40°	4958	5012	5188
45°	4454	4534	4606
50°	3851	3988	3812
55°	3360	3272	3229
60°	2910	2620	2796
65°	2601	2057	2511
70°	2413	1703	2477
75°	2409	1800	2749
80°	2667	2267	3100
85°	2785	2458	3505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	4.3
10°-20°	521.6	12.3
20°-30°	771.5	18.3
30°-40°	870.6	20.6
40°-50°	767.4	18.2
50°-60°	526.4	12.5
60°-70°	310.6	7.4
70°-80°	193.8	4.6
80°-90°	80.8	1.9
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°	1476.2	34.9
0°-40°	2346.8	55.5
0°-60°	3640.7	86.1
0°-90°	4226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1928	1925	1926	1932	1937	183
15°	1835	1837	1845	1868	1877	517
25°	1656	1662	1675	1696	1705	761
35°	1372	1384	1388	1421	1444	855
45°	983	988	1001	1007	1017	755
55°	602	587	586	566	578	540
65°	343	302	271	314	331	346
75°	195	175	146	204	222	209
85°	76	71	67	88	95	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1935.3	1935.3	1935.3	1935.3	1935.3
2.5°	1936.4	1931.5	1929.5	1937.3	1942.2
5°	1928.5	1924.6	1925.5	1932.4	1937.3
7.5°	1914.7	1911.8	1911.8	1921.6	1926.5
10°	1895.1	1894.1	1894.1	1905.8	1912.7
12.5°	1867.5	1868.5	1872.4	1888.1	1900.0
15°	1835.1	1837.0	1844.9	1867.5	1877.4
17.5°	1799.6	1799.6	1815.4	1833.1	1844.9
20°	1754.4	1757.4	1775.0	1794.7	1806.5
22.5°	1708.2	1713.1	1727.9	1750.5	1761.3
25°	1656.1	1662.0	1674.8	1696.4	1705.3
27.5°	1595.1	1603.0	1616.7	1632.5	1651.2
30°	1525.3	1537.1	1545.9	1567.6	1588.2
32.5°	1454.5	1465.3	1475.2	1497.8	1521.3
35°	1371.9	1383.7	1387.6	1421.1	1443.7
37.5°	1287.3	1292.2	1294.2	1327.6	1352.2
40°	1186.0	1195.8	1198.8	1225.3	1241.1
42.5°	1088.7	1092.5	1098.5	1118.2	1136.8
45°	983.4	988.3	1001.1	1007.1	1016.9
47.5°	873.2	888.0	902.7	884.1	885.1
50°	773.0	784.8	800.5	765.1	765.1
52.5°	683.4	689.4	690.3	660.8	666.8
55°	601.8	587.1	586.1	566.5	578.3
57.5°	520.2	500.5	493.6	487.8	501.6
60°	454.3	418.9	409.1	418.0	436.6
62.5°	400.2	355.0	336.3	359.0	375.6
65°	343.2	301.9	271.4	313.7	331.4
67.5°	298.9	259.6	220.2	280.3	293.1
70°	257.7	227.2	181.9	254.7	264.5
72.5°	224.2	200.6	157.4	230.1	241.9
75°	194.7	175.0	145.5	203.6	222.2
77.5°	171.1	149.5	135.7	176.0	198.7
80°	144.6	122.9	122.9	147.5	168.1
82.5°	114.0	96.4	99.3	120.0	134.8
85°	75.8	70.8	66.9	87.5	95.4
87.5°	38.4	39.3	35.4	45.2	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)