

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: P219074

Luminaire Tested: **24GR-LD5-56-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-F1-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5199.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

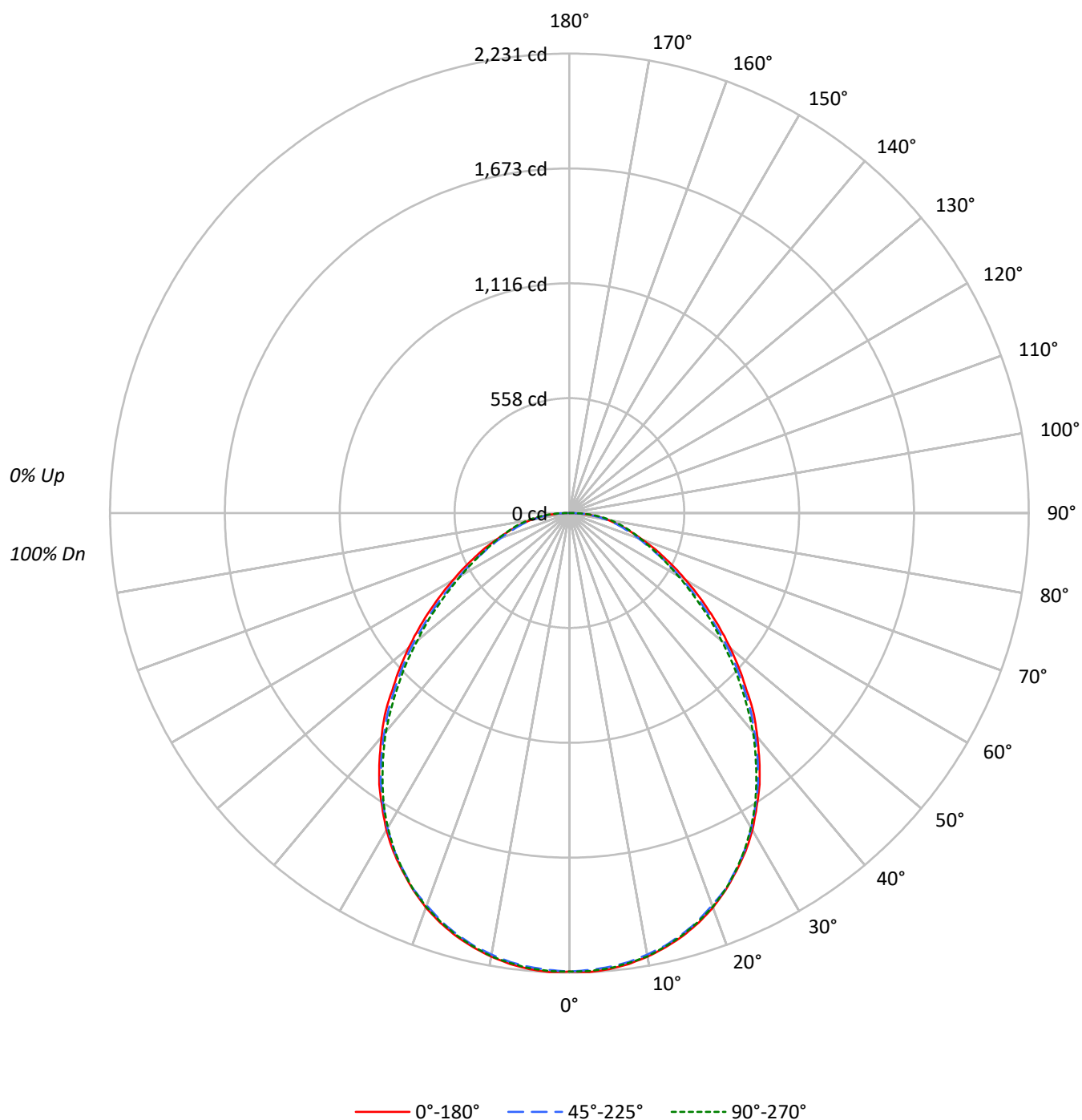
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			94	92	90			91
2	100	92	86	80	98	90	85	80		87	82	78			84	80	76			81
3	92	82	74	68	89	80	73	67		77	71	66			75	69	65			72
4	85	73	65	58	82	72	64	58		69	63	57			67	61	57			65
5	78	66	57	51	76	65	57	51		63	56	50			61	55	50			59
6	72	60	51	45	71	59	51	45		57	50	44			55	49	44			54
7	67	54	46	40	66	54	46	40		52	45	40			51	44	39			49
8	63	50	42	36	61	49	41	36		48	41	36			47	40	36			46
9	59	46	38	33	58	45	38	33		44	37	32			43	37	32			42
10	55	43	35	30	54	42	35	30		41	34	30			40	34	29			39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3409	3409	3409
5°	3417	3402	3411
10°	3401	3386	3398
15°	3372	3357	3364
20°	3322	3303	3316
25°	3242	3231	3234
30°	3143	3125	3119
35°	3010	2986	2959
40°	2837	2800	2773
45°	2636	2589	2540
50°	2430	2367	2296
55°	2209	2132	2065
60°	2001	1896	1861
65°	1830	1708	1720
70°	1683	1587	1662
75°	1636	1551	1694
80°	1641	1598	1803
85°	1803	1705	1986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	4.0
10°-20°	596.9	11.5
20°-30°	879.5	16.9
30°-40°	994.7	19.1
40°-50°	922.6	17.7
50°-60°	716.8	13.8
60°-70°	480.6	9.2
70°-80°	288.0	5.5
80°-90°	109.6	2.1
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°	1686.7	32.4
0°-40°	2681.4	51.6
0°-60°	4320.7	83.1
0°-90°	5199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2223	2216	2212	2211	2219	211
15°	2127	2118	2117	2113	2122	599
25°	1918	1916	1912	1908	1913	883
35°	1610	1603	1597	1587	1582	1003
45°	1217	1212	1195	1177	1173	941
55°	827	818	798	778	774	743
65°	505	489	471	470	475	504
75°	276	267	262	275	286	292
85°	103	96	97	114	113	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2226.0	2226.0	2226.0	2226.0	2226.0
2.5°	2230.8	2223.6	2220.4	2218.8	2226.0
5°	2222.8	2216.4	2212.4	2210.8	2218.8
7.5°	2208.4	2201.1	2198.7	2195.6	2203.6
10°	2186.7	2180.3	2177.1	2174.7	2185.1
12.5°	2159.4	2153.9	2150.6	2149.1	2155.4
15°	2126.6	2117.8	2116.9	2112.9	2121.8
17.5°	2085.7	2077.7	2076.1	2074.5	2080.1
20°	2038.4	2030.4	2026.4	2025.6	2034.4
22.5°	1981.5	1975.9	1977.5	1972.7	1979.1
25°	1918.2	1915.8	1911.7	1908.5	1913.4
27.5°	1852.5	1844.5	1844.5	1838.0	1842.8
30°	1777.1	1771.5	1766.7	1760.3	1763.5
32.5°	1692.1	1689.8	1682.5	1676.1	1677.7
35°	1609.6	1603.1	1596.8	1587.1	1582.3
37.5°	1515.0	1508.6	1500.6	1486.9	1485.3
40°	1418.8	1413.2	1400.4	1385.9	1386.7
42.5°	1327.4	1318.6	1302.6	1283.4	1279.4
45°	1216.8	1212.0	1195.2	1176.7	1172.7
47.5°	1118.2	1115.0	1094.2	1074.9	1070.1
50°	1019.7	1010.8	993.2	973.9	963.5
52.5°	922.6	911.4	889.0	876.1	871.3
55°	827.2	817.6	798.3	778.3	773.5
57.5°	738.3	727.8	704.6	690.1	687.8
60°	653.3	643.6	618.8	608.4	607.6
62.5°	577.9	561.9	545.1	537.9	538.6
65°	505.0	488.9	471.3	469.7	474.6
67.5°	440.9	424.1	406.4	412.8	417.6
70°	375.9	363.9	354.3	364.7	371.1
72.5°	320.6	313.4	304.6	319.0	327.1
75°	276.5	266.9	262.1	274.9	286.2
77.5°	229.2	221.2	221.2	234.9	246.9
80°	186.0	180.4	181.2	197.2	204.4
82.5°	145.9	137.9	138.7	158.7	163.5
85°	102.6	96.2	97.0	113.8	113.0
87.5°	53.7	51.3	53.7	65.7	62.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)