

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: P219179

Luminaire Tested: **24GR-LD5-56-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219179
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-LD5-56-A125-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4922.6 lumens
Efficiency: N/A
Efficacy: 109.0 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

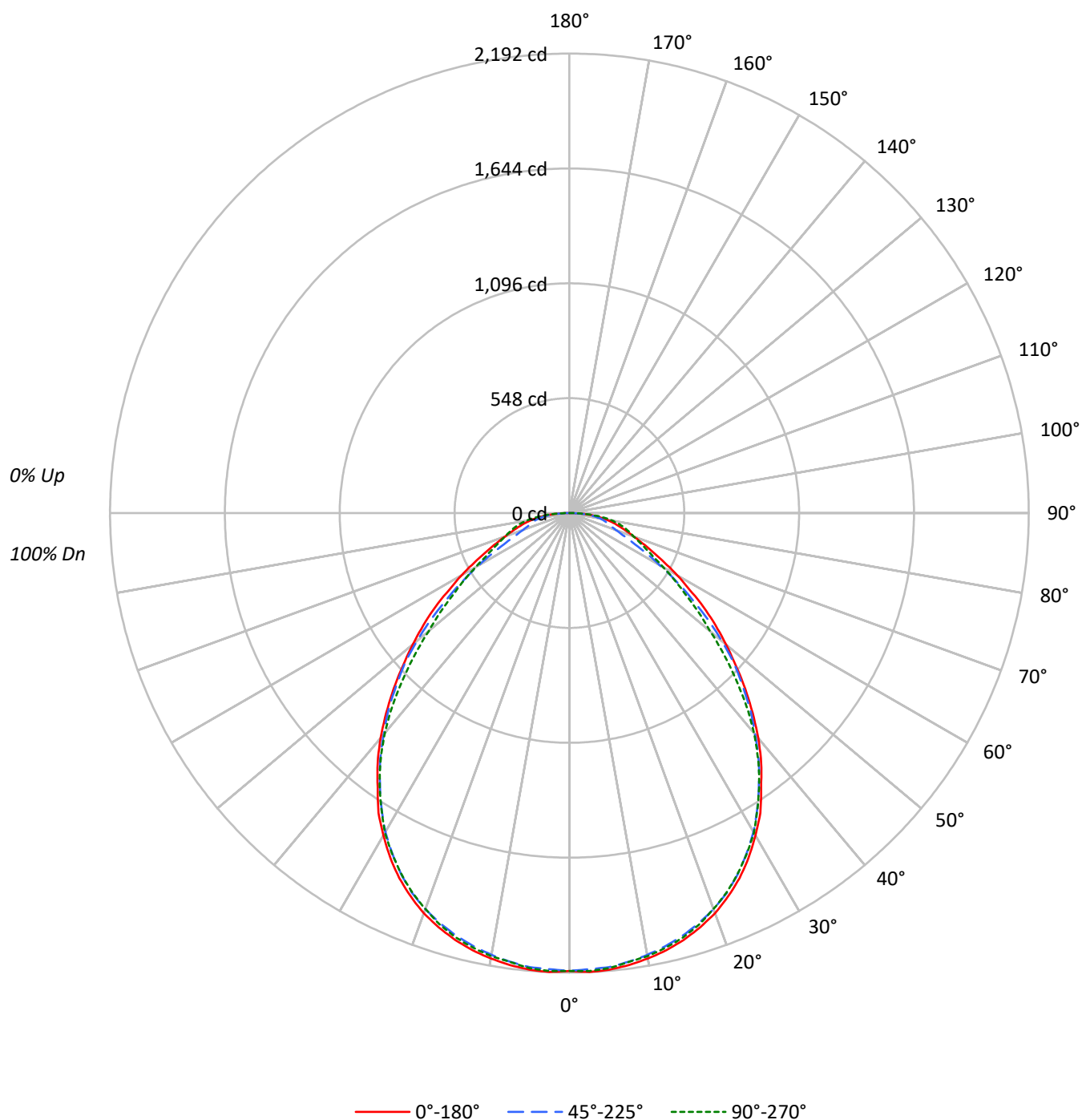
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3345	3345	3345
5°	3362	3343	3351
10°	3355	3328	3338
15°	3343	3309	3323
20°	3311	3277	3276
25°	3246	3212	3209
30°	3139	3107	3114
35°	2982	2948	2952
40°	2804	2755	2738
45°	2570	2535	2435
50°	2323	2260	2089
55°	2086	1899	1801
60°	1826	1528	1584
65°	1593	1201	1458
70°	1458	1049	1458
75°	1458	1116	1607
80°	1583	1314	1831
85°	1738	1485	1965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	4.2
10°-20°	590.2	12.0
20°-30°	875.2	17.8
30°-40°	987.3	20.1
40°-50°	894.2	18.2
50°-60°	645.1	13.1
60°-70°	385.2	7.8
70°-80°	238.1	4.8
80°-90°	100.3	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°	1672.3	34.0
0°-40°	2659.6	54.0
0°-60°	4199.0	85.3
0°-90°	4922.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2186	2183	2174	2172	2180	208
15°	2108	2095	2087	2088	2096	594
25°	1921	1910	1900	1894	1899	882
35°	1595	1592	1576	1577	1579	998
45°	1186	1179	1170	1142	1124	914
55°	781	757	711	676	675	697
65°	440	387	332	376	402	442
75°	246	214	189	235	272	263
85°	99	87	84	110	112	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2184.1	2184.1	2184.1	2184.1	2184.1
2.5°	2191.7	2185.6	2178.0	2182.6	2186.4
5°	2186.4	2183.4	2174.2	2171.9	2179.5
7.5°	2174.9	2167.4	2159.0	2162.8	2159.7
10°	2157.5	2150.6	2140.0	2140.7	2146.0
12.5°	2136.2	2127.8	2116.4	2119.5	2124.0
15°	2108.0	2095.1	2086.8	2087.5	2095.9
17.5°	2072.3	2062.5	2051.8	2054.0	2057.9
20°	2031.2	2025.9	2010.7	2006.1	2009.9
22.5°	1979.5	1969.7	1961.3	1959.0	1959.8
25°	1921.0	1910.3	1900.4	1893.6	1898.9
27.5°	1852.5	1843.4	1830.5	1828.2	1832.7
30°	1775.0	1768.1	1756.7	1753.6	1760.5
32.5°	1695.8	1684.5	1668.5	1668.5	1670.0
35°	1594.7	1592.5	1576.5	1577.2	1578.8
37.5°	1503.5	1492.8	1483.7	1474.6	1479.1
40°	1402.3	1390.2	1378.0	1371.9	1369.6
42.5°	1293.6	1284.4	1279.2	1257.1	1251.7
45°	1186.4	1178.7	1170.4	1141.5	1124.0
47.5°	1076.8	1075.3	1068.5	1017.6	1000.0
50°	974.9	972.7	948.3	894.3	876.9
52.5°	878.3	863.2	831.2	778.0	774.9
55°	781.1	756.7	711.0	676.0	674.6
57.5°	678.4	649.5	603.0	584.0	593.9
60°	596.2	552.1	498.9	501.1	517.1
62.5°	511.0	461.6	409.1	432.0	451.0
65°	439.5	387.1	331.5	376.4	402.3
67.5°	377.2	328.5	275.3	335.4	360.4
70°	325.5	286.0	234.3	297.4	325.5
72.5°	284.4	247.9	207.6	266.9	299.6
75°	246.4	213.7	188.6	235.0	271.5
77.5°	213.7	181.7	170.4	207.6	243.4
80°	179.5	150.6	149.0	181.0	207.6
82.5°	139.9	120.1	120.1	151.4	167.3
85°	98.9	86.7	84.5	110.3	111.8
87.5°	50.9	48.7	44.1	57.8	57.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)