

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: P257241

Luminaire Tested: **24GR-LD5-48-F125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257241
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-LD5-48-F125-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4216.3 lumens
Efficiency: N/A
Efficacy: 112.5 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

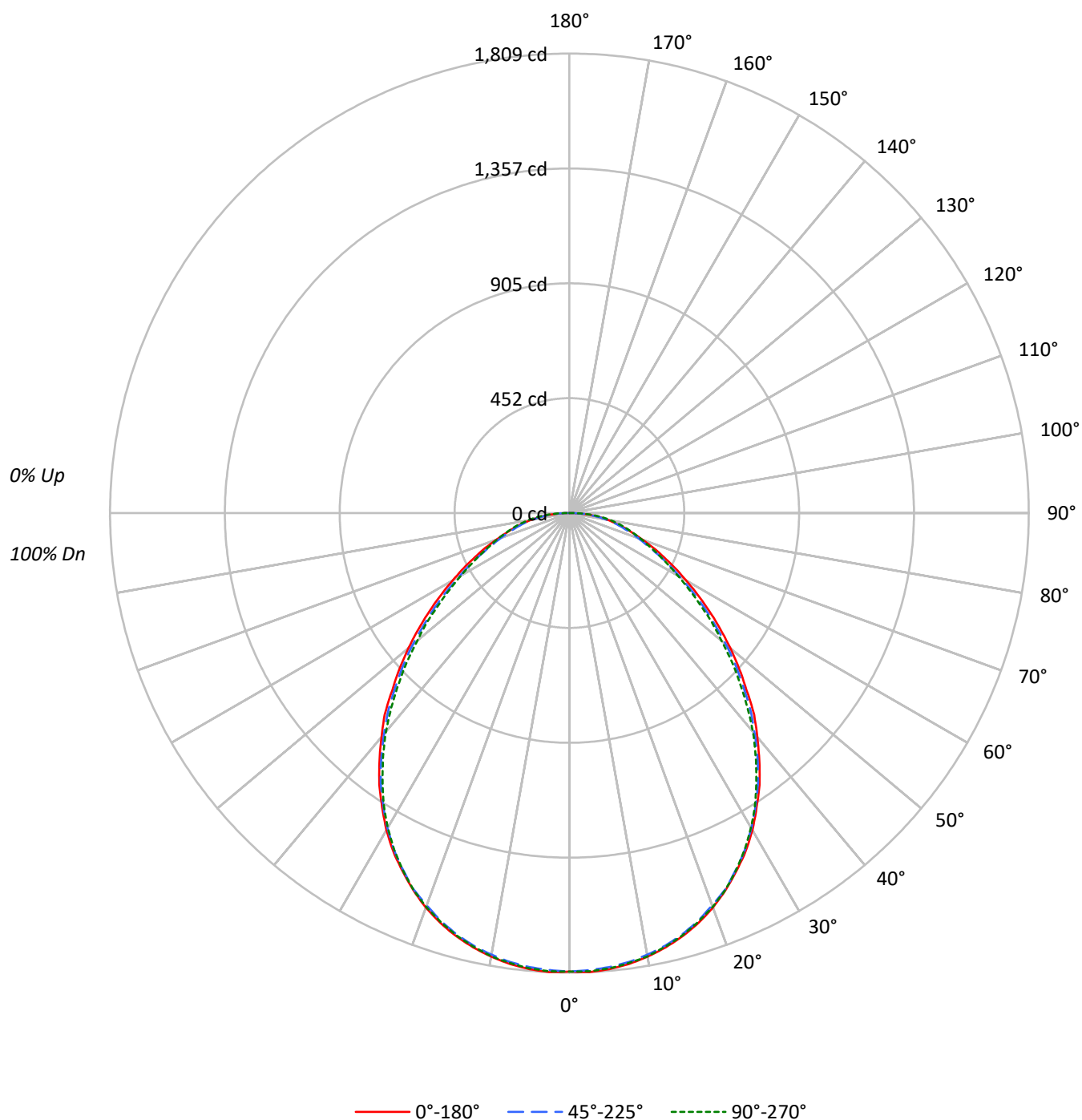
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2765	2765	2765
5°	2771	2759	2767
10°	2758	2746	2756
15°	2735	2722	2729
20°	2694	2679	2689
25°	2629	2620	2622
30°	2549	2534	2529
35°	2441	2421	2399
40°	2301	2271	2249
45°	2137	2099	2060
50°	1970	1919	1862
55°	1792	1729	1675
60°	1623	1537	1510
65°	1484	1386	1395
70°	1365	1287	1348
75°	1327	1258	1374
80°	1330	1296	1462
85°	1462	1383	1611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	4.0
10°-20°	484.1	11.5
20°-30°	713.3	16.9
30°-40°	806.6	19.1
40°-50°	748.2	17.7
50°-60°	581.3	13.8
60°-70°	389.8	9.2
70°-80°	233.6	5.5
80°-90°	88.9	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°	1367.9	32.4
0°-40°	2174.5	51.6
0°-60°	3504.0	83.1
0°-90°	4216.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4216.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1803	1798	1794	1793	1799	171
15°	1725	1718	1717	1714	1721	486
25°	1556	1554	1550	1548	1552	716
35°	1305	1300	1295	1287	1283	813
45°	987	983	969	954	951	763
55°	671	663	648	631	627	602
65°	410	396	382	381	385	409
75°	224	216	213	223	232	237
85°	83	78	79	92	92	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1805.2	1805.2	1805.2	1805.2	1805.2
2.5°	1809.2	1803.3	1800.7	1799.4	1805.2
5°	1802.6	1797.5	1794.2	1792.9	1799.4
7.5°	1791.0	1785.1	1783.1	1780.5	1787.1
10°	1773.4	1768.2	1765.6	1763.6	1772.1
12.5°	1751.3	1746.7	1744.2	1742.9	1748.0
15°	1724.6	1717.5	1716.8	1713.6	1720.8
17.5°	1691.4	1685.0	1683.7	1682.4	1686.9
20°	1653.1	1646.6	1643.4	1642.7	1649.9
22.5°	1607.0	1602.4	1603.7	1599.9	1605.0
25°	1555.7	1553.7	1550.4	1547.8	1551.7
27.5°	1502.3	1495.8	1495.8	1490.6	1494.5
30°	1441.2	1436.6	1432.8	1427.5	1430.2
32.5°	1372.3	1370.3	1364.5	1359.3	1360.6
35°	1305.3	1300.1	1294.9	1287.2	1283.2
37.5°	1228.6	1223.4	1216.9	1205.9	1204.6
40°	1150.6	1146.0	1135.6	1123.9	1124.6
42.5°	1076.5	1069.3	1056.3	1040.8	1037.5
45°	986.8	982.9	969.2	954.3	951.1
47.5°	906.9	904.3	887.3	871.8	867.8
50°	826.9	819.8	805.5	789.8	781.4
52.5°	748.2	739.2	720.9	710.5	706.7
55°	670.9	663.1	647.5	631.2	627.3
57.5°	598.7	590.3	571.4	559.7	557.8
60°	529.8	522.0	501.9	493.4	492.8
62.5°	468.7	455.7	442.0	436.2	436.9
65°	409.5	396.5	382.3	381.0	384.8
67.5°	357.5	343.9	329.6	334.8	338.7
70°	304.9	295.2	287.3	295.8	301.0
72.5°	260.1	254.2	247.0	258.7	265.2
75°	224.3	216.5	212.6	223.0	232.1
77.5°	185.9	179.4	179.4	190.5	200.2
80°	150.8	146.3	146.9	160.0	165.8
82.5°	118.3	111.8	112.5	128.7	132.6
85°	83.2	78.0	78.7	92.3	91.7
87.5°	43.5	41.6	43.5	53.3	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)