

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: P219042

Luminaire Tested: **24GR-LD5-42-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219042
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-LD5-42-F1-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.9 lumens
Efficiency: N/A
Efficacy: 105.4 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

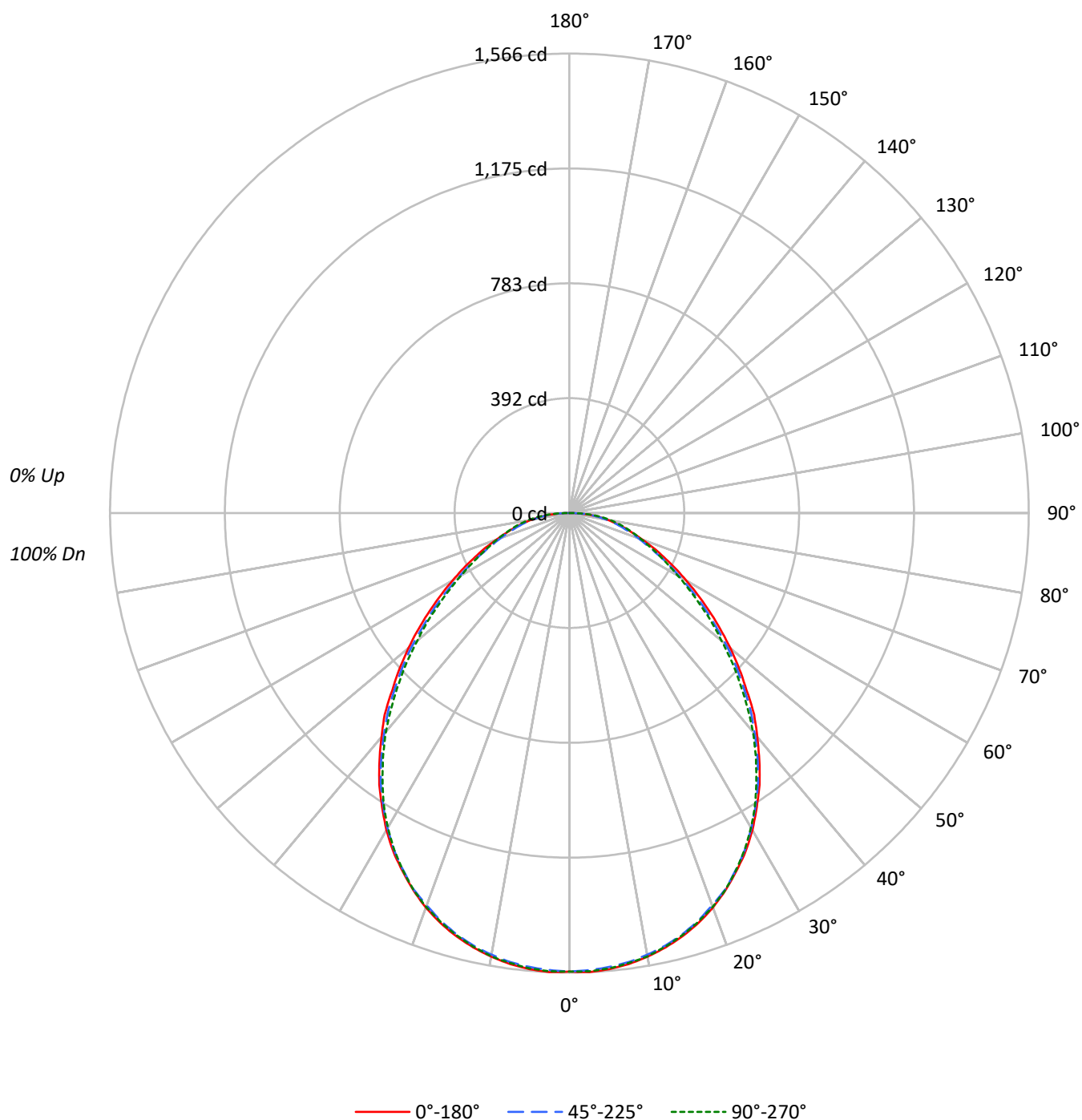
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2393	2393	2393
5°	2399	2388	2395
10°	2388	2377	2386
15°	2367	2357	2362
20°	2333	2319	2328
25°	2276	2268	2270
30°	2206	2193	2189
35°	2113	2096	2077
40°	1991	1966	1946
45°	1850	1817	1783
50°	1706	1662	1612
55°	1551	1497	1450
60°	1405	1331	1306
65°	1285	1199	1207
70°	1182	1114	1167
75°	1149	1089	1189
80°	1152	1122	1266
85°	1265	1197	1394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	4.0
10°-20°	419.0	11.5
20°-30°	617.5	16.9
30°-40°	698.3	19.1
40°-50°	647.7	17.7
50°-60°	503.2	13.8
60°-70°	337.4	9.2
70°-80°	202.2	5.5
80°-90°	76.9	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°	1184.1	32.4
0°-40°	1882.4	51.6
0°-60°	3033.3	83.1
0°-90°	3649.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1560	1556	1553	1552	1558	148
15°	1493	1487	1486	1483	1490	421
25°	1347	1345	1342	1340	1343	620
35°	1130	1126	1121	1114	1111	704
45°	854	851	839	826	823	661
55°	581	574	560	546	543	521
65°	354	343	331	330	333	354
75°	194	187	184	193	201	205
85°	72	68	68	80	79	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1562.7	1562.7	1562.7	1562.7	1562.7
2.5°	1566.1	1561.0	1558.8	1557.6	1562.7
5°	1560.4	1556.0	1553.1	1552.0	1557.6
7.5°	1550.3	1545.3	1543.6	1541.3	1547.0
10°	1535.2	1530.7	1528.4	1526.7	1534.0
12.5°	1516.0	1512.1	1509.9	1508.7	1513.2
15°	1492.9	1486.7	1486.2	1483.3	1489.5
17.5°	1464.2	1458.6	1457.5	1456.4	1460.3
20°	1431.1	1425.4	1422.6	1422.0	1428.3
22.5°	1391.1	1387.1	1388.3	1384.9	1389.4
25°	1346.7	1345.0	1342.1	1339.9	1343.3
27.5°	1300.5	1294.9	1294.9	1290.4	1293.7
30°	1247.6	1243.6	1240.2	1235.8	1238.0
32.5°	1188.0	1186.3	1181.2	1176.7	1177.8
35°	1130.0	1125.5	1121.0	1114.2	1110.9
37.5°	1063.6	1059.1	1053.4	1043.9	1042.8
40°	996.0	992.1	983.1	973.0	973.5
42.5°	931.9	925.7	914.4	900.9	898.1
45°	854.2	850.8	839.0	826.1	823.3
47.5°	785.1	782.8	768.1	754.6	751.2
50°	715.8	709.6	697.3	683.7	676.4
52.5°	647.7	639.8	624.1	615.1	611.7
55°	580.7	574.0	560.5	546.4	543.1
57.5°	518.2	510.9	494.6	484.5	482.8
60°	458.7	451.9	434.4	427.1	426.5
62.5°	405.7	394.5	382.7	377.6	378.2
65°	354.5	343.2	330.9	329.8	333.1
67.5°	309.5	297.7	285.3	289.8	293.2
70°	263.9	255.5	248.7	256.0	260.5
72.5°	225.1	220.1	213.9	224.0	229.6
75°	194.1	187.4	184.0	193.0	200.9
77.5°	160.9	155.3	155.3	164.9	173.3
80°	130.6	126.6	127.2	138.5	143.5
82.5°	102.4	96.8	97.3	111.4	114.8
85°	72.0	67.5	68.1	79.9	79.3
87.5°	37.7	36.0	37.7	46.2	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)