

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: P219057

Luminaire Tested: **24GR-LD5-42-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219057
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-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3755.4 lumens
Efficiency: N/A
Efficacy: 108.5 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

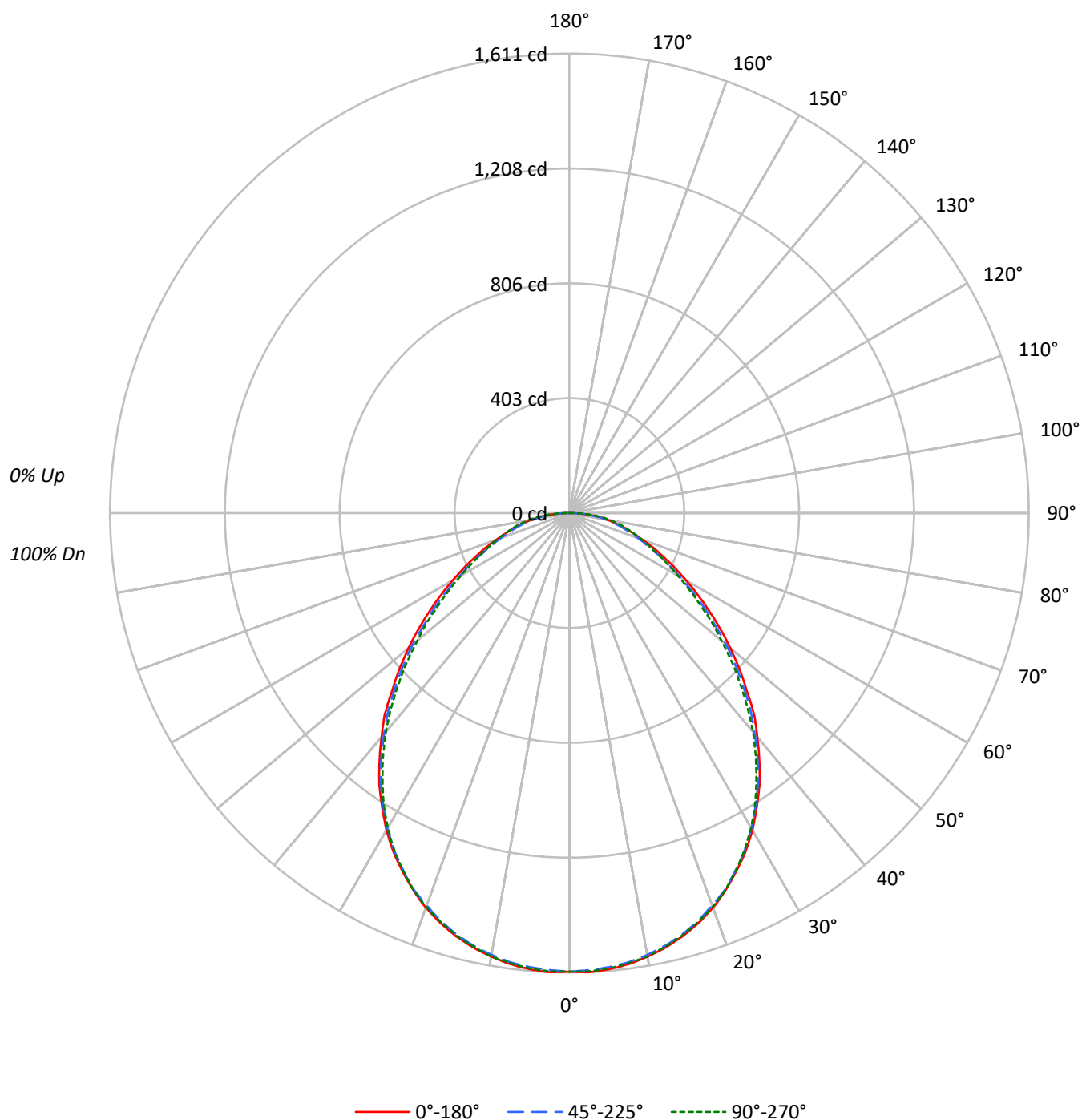
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219057

CATALOG NUMBER: 24GR-LD5-42-F1-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P219057

CATALOG NUMBER: 24GR-LD5-42-F1-UNV-L940-CD1-U

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°	2463	2463	2463
5°	2469	2457	2464
10°	2457	2446	2455
15°	2436	2425	2430
20°	2400	2386	2395
25°	2341	2334	2336
30°	2270	2257	2253
35°	2174	2156	2137
40°	2049	2022	2003
45°	1904	1870	1835
50°	1755	1709	1658
55°	1596	1540	1492
60°	1446	1369	1344
65°	1322	1234	1242
70°	1216	1146	1201
75°	1182	1121	1223
80°	1185	1155	1303
85°	1302	1232	1434



TEST NUMBER: P219057

CATALOG NUMBER: 24GR-LD5-42-F1-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	4.0
10°-20°	431.1	11.5
20°-30°	635.3	16.9
30°-40°	718.5	19.1
40°-50°	666.4	17.7
50°-60°	517.7	13.8
60°-70°	347.2	9.2
70°-80°	208.1	5.5
80°-90°	79.2	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°	1218.4	32.4
0°-40°	1936.8	51.6
0°-60°	3121.0	83.1
0°-90°	3755.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1606	1601	1598	1597	1603	152
15°	1536	1530	1529	1526	1533	433
25°	1386	1384	1381	1379	1382	638
35°	1163	1158	1153	1146	1143	725
45°	879	876	863	850	847	680
55°	598	591	577	562	559	536
65°	365	353	340	339	343	364
75°	200	193	189	199	207	211
85°	74	70	70	82	82	78
90°	0	0	0	0	0	



TEST NUMBER: P219057

CATALOG NUMBER: 24GR-LD5-42-F1-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1607.9	1607.9	1607.9	1607.9	1607.9
2.5°	1611.4	1606.1	1603.8	1602.7	1607.9
5°	1605.6	1601.0	1598.1	1596.9	1602.7
7.5°	1595.1	1590.0	1588.2	1585.9	1591.7
10°	1579.6	1574.9	1572.6	1570.9	1578.4
12.5°	1559.9	1555.8	1553.5	1552.3	1556.9
15°	1536.1	1529.8	1529.2	1526.2	1532.6
17.5°	1506.5	1500.8	1499.7	1498.5	1502.5
20°	1472.4	1466.6	1463.7	1463.1	1469.5
22.5°	1431.3	1427.3	1428.4	1424.9	1429.6
25°	1385.5	1383.8	1380.9	1378.6	1382.1
27.5°	1338.1	1332.3	1332.3	1327.7	1331.1
30°	1283.6	1279.6	1276.2	1271.5	1273.8
32.5°	1222.3	1220.5	1215.4	1210.7	1211.8
35°	1162.6	1158.0	1153.3	1146.5	1142.9
37.5°	1094.4	1089.7	1083.9	1074.1	1072.9
40°	1024.9	1020.8	1011.5	1001.1	1001.6
42.5°	958.8	952.4	940.9	927.0	924.1
45°	878.9	875.5	863.3	850.0	847.1
47.5°	807.7	805.4	790.3	776.4	773.0
50°	736.5	730.1	717.4	703.5	696.0
52.5°	666.4	658.3	642.2	632.9	629.3
55°	597.5	590.6	576.7	562.2	558.7
57.5°	533.3	525.7	508.9	498.5	496.8
60°	471.9	464.9	447.0	439.5	438.9
62.5°	417.4	405.9	393.7	388.5	389.1
65°	364.8	353.2	340.5	339.3	342.8
67.5°	318.5	306.3	293.5	298.2	301.7
70°	271.6	262.9	255.9	263.4	268.1
72.5°	231.6	226.4	220.0	230.5	236.2
75°	199.8	192.8	189.4	198.6	206.7
77.5°	165.6	159.8	159.8	169.7	178.4
80°	134.3	130.3	130.9	142.4	147.7
82.5°	105.4	99.6	100.2	114.6	118.1
85°	74.1	69.5	70.1	82.2	81.6
87.5°	38.8	37.1	38.8	47.5	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)