

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: P219027

Luminaire Tested: **24GR-LD5-42-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219027
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-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3461.4 lumens
Efficiency: N/A
Efficacy: 100.0 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

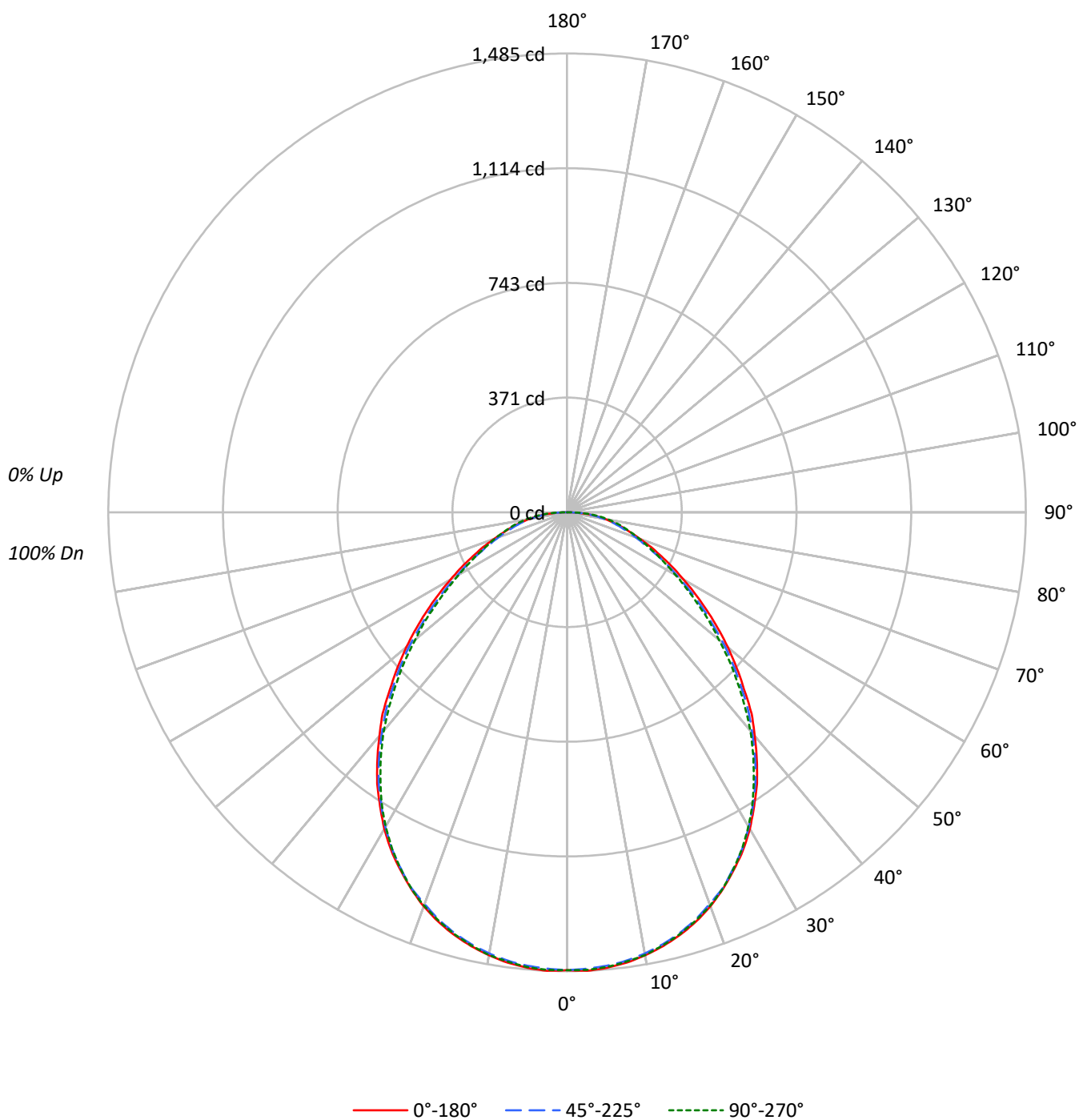
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2270	2270	2270
5°	2275	2265	2271
10°	2264	2254	2263
15°	2245	2235	2240
20°	2212	2199	2208
25°	2158	2151	2153
30°	2093	2080	2076
35°	2004	1988	1970
40°	1889	1864	1846
45°	1755	1724	1691
50°	1617	1575	1529
55°	1471	1419	1375
60°	1332	1262	1239
65°	1218	1137	1145
70°	1121	1056	1107
75°	1089	1033	1127
80°	1092	1064	1200
85°	1200	1133	1323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	4.0
10°-20°	397.4	11.5
20°-30°	585.6	16.9
30°-40°	662.2	19.1
40°-50°	614.2	17.7
50°-60°	477.2	13.8
60°-70°	320.0	9.2
70°-80°	191.8	5.5
80°-90°	73.0	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°	1123.0	32.4
0°-40°	1785.2	51.6
0°-60°	2876.6	83.1
0°-90°	3461.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1480	1476	1473	1472	1477	140
15°	1416	1410	1409	1407	1413	399
25°	1277	1276	1273	1271	1274	588
35°	1072	1067	1063	1057	1054	668
45°	810	807	796	783	781	626
55°	551	544	532	518	515	494
65°	336	326	314	313	316	336
75°	184	178	174	183	190	194
85°	68	64	64	76	75	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1485.2	1480.4	1478.3	1477.2	1482.0
5°	1479.9	1475.6	1473.0	1471.9	1477.2
7.5°	1470.3	1465.5	1463.9	1461.7	1467.1
10°	1455.8	1451.6	1449.4	1447.9	1454.8
12.5°	1437.7	1434.0	1431.9	1430.8	1435.1
15°	1415.8	1410.0	1409.4	1406.8	1412.6
17.5°	1388.6	1383.3	1382.2	1381.1	1384.9
20°	1357.1	1351.8	1349.1	1348.6	1354.5
22.5°	1319.2	1315.5	1316.6	1313.4	1317.7
25°	1277.1	1275.5	1272.8	1270.7	1273.9
27.5°	1233.4	1227.9	1227.9	1223.7	1226.9
30°	1183.2	1179.4	1176.2	1171.9	1174.1
32.5°	1126.6	1125.0	1120.2	1115.9	1117.0
35°	1071.7	1067.3	1063.0	1056.7	1053.5
37.5°	1008.7	1004.3	999.0	990.0	988.9
40°	944.6	940.9	932.3	922.7	923.2
42.5°	883.8	877.9	867.2	854.4	851.7
45°	810.2	806.9	795.7	783.4	780.8
47.5°	744.5	742.3	728.5	715.7	712.4
50°	678.8	673.0	661.2	648.5	641.5
52.5°	614.3	606.8	591.9	583.3	580.1
55°	550.7	544.3	531.5	518.2	515.0
57.5°	491.5	484.5	469.1	459.5	457.9
60°	434.9	428.5	412.0	405.1	404.5
62.5°	384.7	374.1	362.9	358.1	358.7
65°	336.2	325.5	313.8	312.7	315.9
67.5°	293.6	282.3	270.6	274.9	278.1
70°	250.3	242.3	235.9	242.8	247.1
72.5°	213.4	208.7	202.8	212.4	217.7
75°	184.1	177.7	174.5	183.0	190.5
77.5°	152.6	147.3	147.3	156.4	164.4
80°	123.8	120.0	120.6	131.3	136.1
82.5°	97.1	91.8	92.3	105.7	108.9
85°	68.3	64.0	64.5	75.8	75.3
87.5°	35.8	34.2	35.8	43.8	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)