

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: P219087

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219087
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-LD5-42-A-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3501.9 lumens
Efficiency: N/A
Efficacy: 101.2 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

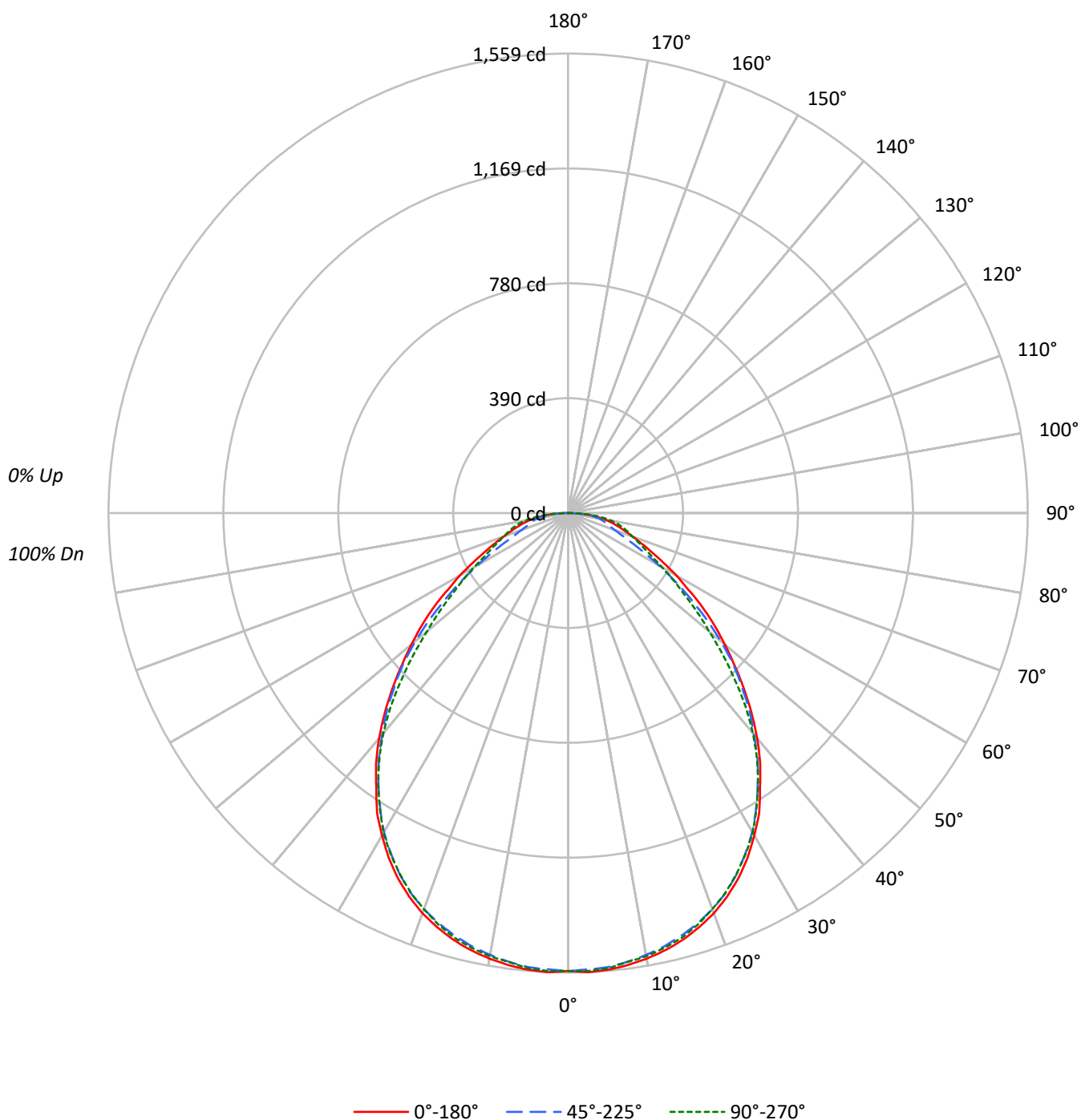
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2380	2380	2380
5°	2391	2378	2384
10°	2387	2368	2375
15°	2378	2354	2364
20°	2355	2331	2331
25°	2310	2285	2283
30°	2233	2210	2215
35°	2121	2097	2100
40°	1995	1960	1948
45°	1828	1803	1732
50°	1653	1607	1486
55°	1484	1351	1281
60°	1299	1087	1127
65°	1133	855	1037
70°	1037	746	1037
75°	1037	794	1143
80°	1126	935	1303
85°	1237	1054	1397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	4.2
10°-20°	419.9	12.0
20°-30°	622.6	17.8
30°-40°	702.4	20.1
40°-50°	636.2	18.2
50°-60°	458.9	13.1
60°-70°	274.0	7.8
70°-80°	169.4	4.8
80°-90°	71.3	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°	1189.7	34.0
0°-40°	1892.1	54.0
0°-60°	2987.2	85.3
0°-90°	3501.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3501.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1555	1553	1547	1545	1550	148
15°	1500	1490	1484	1485	1491	423
25°	1367	1359	1352	1347	1351	628
35°	1134	1133	1122	1122	1123	710
45°	844	838	833	812	800	650
55°	556	538	506	481	480	496
65°	313	275	236	268	286	315
75°	175	152	134	167	193	187
85°	70	62	60	78	80	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.8	1553.8	1553.8	1553.8	1553.8
2.5°	1559.2	1554.9	1549.5	1552.7	1555.4
5°	1555.4	1553.2	1546.8	1545.1	1550.5
7.5°	1547.3	1541.8	1535.9	1538.6	1536.4
10°	1534.9	1530.0	1522.4	1523.0	1526.8
12.5°	1519.7	1513.7	1505.6	1507.8	1511.0
15°	1499.7	1490.5	1484.5	1485.1	1491.0
17.5°	1474.3	1467.2	1459.7	1461.2	1463.9
20°	1445.0	1441.2	1430.4	1427.2	1429.9
22.5°	1408.3	1401.2	1395.2	1393.7	1394.2
25°	1366.6	1359.0	1352.0	1347.1	1350.9
27.5°	1317.9	1311.4	1302.2	1300.6	1303.8
30°	1262.7	1257.9	1249.8	1247.5	1252.5
32.5°	1206.5	1198.3	1186.9	1186.9	1188.1
35°	1134.5	1132.9	1121.5	1122.1	1123.2
37.5°	1069.6	1062.0	1055.5	1049.0	1052.3
40°	997.6	989.0	980.3	976.0	974.3
42.5°	920.3	913.8	910.0	894.3	890.5
45°	843.9	838.5	832.6	812.0	799.6
47.5°	766.0	765.0	760.1	723.9	711.4
50°	693.6	691.9	674.6	636.2	623.8
52.5°	624.8	614.0	591.3	553.4	551.3
55°	555.6	538.3	505.9	480.9	479.9
57.5°	482.6	462.0	429.0	415.5	422.5
60°	424.2	392.8	354.9	356.5	367.9
62.5°	363.6	328.4	291.1	307.3	320.8
65°	312.7	275.4	235.9	267.8	286.2
67.5°	268.3	233.7	195.8	238.6	256.4
70°	231.6	203.4	166.6	211.6	231.6
72.5°	202.4	176.4	147.7	189.9	213.1
75°	175.3	152.0	134.2	167.2	193.1
77.5°	152.0	129.3	121.2	147.7	173.1
80°	127.7	107.1	106.0	128.7	147.7
82.5°	99.5	85.4	85.4	107.7	119.0
85°	70.4	61.7	60.0	78.5	79.5
87.5°	36.2	34.6	31.4	41.1	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)