

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: P219116

Luminaire Tested: **24GR-LD5-38-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219116
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-LD5-38-A-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3433.2 lumens
Efficiency: N/A
Efficacy: 112.1 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

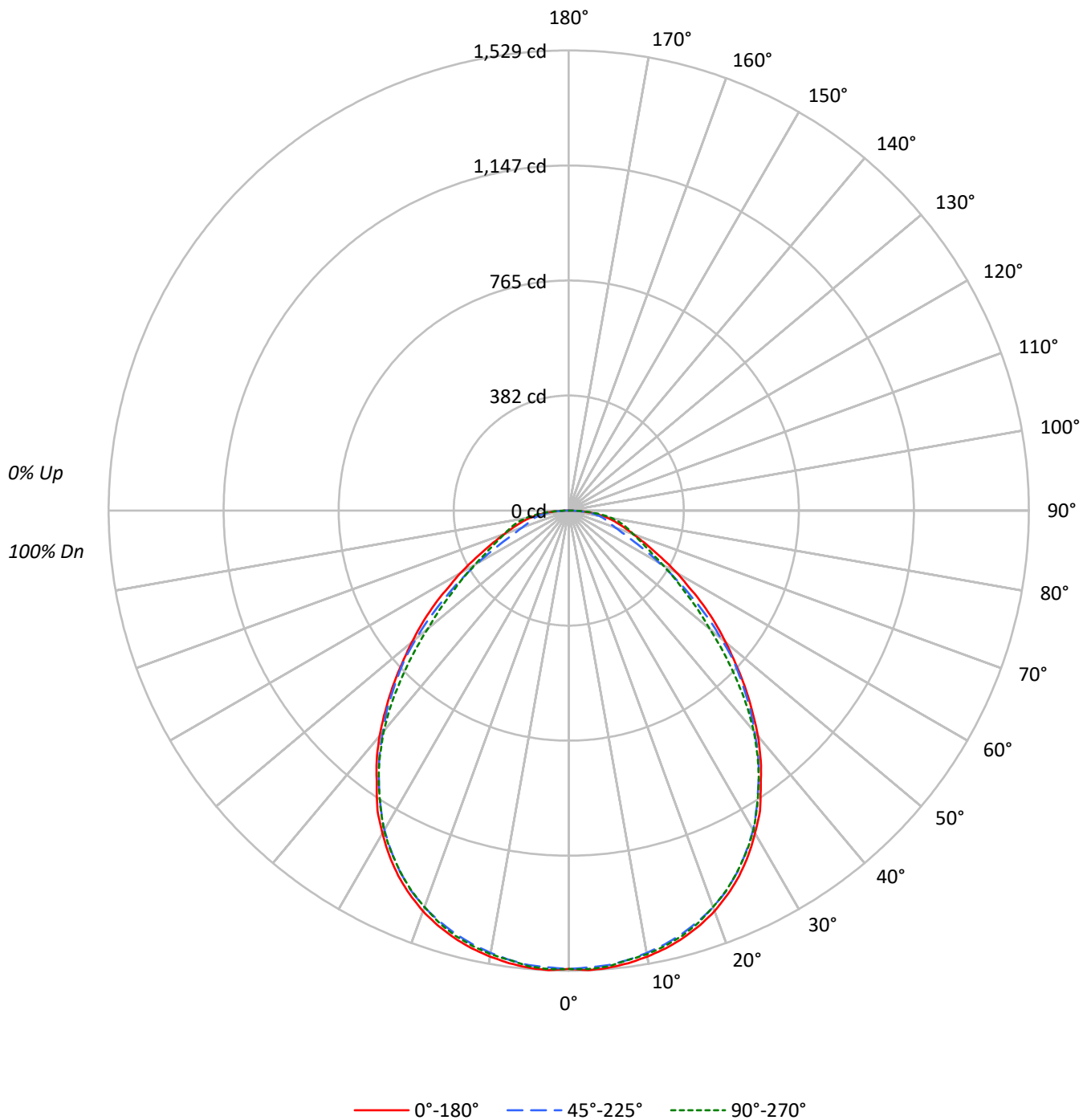
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2333	2333	2333
5°	2344	2331	2337
10°	2340	2321	2328
15°	2331	2308	2318
20°	2309	2286	2285
25°	2264	2240	2238
30°	2189	2167	2171
35°	2080	2056	2059
40°	1955	1921	1910
45°	1792	1768	1698
50°	1620	1576	1457
55°	1455	1324	1256
60°	1274	1066	1105
65°	1111	838	1017
70°	1017	731	1017
75°	1017	778	1121
80°	1103	917	1277
85°	1213	1035	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	4.2
10°-20°	411.7	12.0
20°-30°	610.4	17.8
30°-40°	688.6	20.1
40°-50°	623.7	18.2
50°-60°	449.9	13.1
60°-70°	268.7	7.8
70°-80°	166.0	4.8
80°-90°	70.0	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°	1166.3	34.0
0°-40°	1854.9	54.0
0°-60°	2928.5	85.3
0°-90°	3433.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3433.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1525	1523	1516	1515	1520	145
15°	1470	1461	1455	1456	1462	414
25°	1340	1332	1325	1321	1324	615
35°	1112	1111	1100	1100	1101	696
45°	827	822	816	796	784	638
55°	545	528	496	472	470	486
65°	307	270	231	263	280	308
75°	172	149	132	164	189	183
85°	69	60	59	77	78	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.2	1523.2	1523.2	1523.2	1523.2
2.5°	1528.6	1524.3	1519.0	1522.2	1524.9
5°	1524.9	1522.7	1516.4	1514.7	1520.0
7.5°	1516.9	1511.5	1505.8	1508.4	1506.3
10°	1504.7	1499.9	1492.4	1493.0	1496.7
12.5°	1489.9	1484.0	1476.0	1478.2	1481.4
15°	1470.2	1461.2	1455.4	1455.9	1461.7
17.5°	1445.3	1438.4	1431.0	1432.6	1435.2
20°	1416.7	1412.9	1402.3	1399.1	1401.8
22.5°	1380.6	1373.7	1367.8	1366.3	1366.8
25°	1339.7	1332.3	1325.4	1320.6	1324.3
27.5°	1292.0	1285.6	1276.6	1275.0	1278.2
30°	1237.9	1233.2	1225.2	1223.0	1227.8
32.5°	1182.8	1174.8	1163.7	1163.7	1164.7
35°	1112.2	1110.6	1099.5	1100.0	1101.1
37.5°	1048.5	1041.1	1034.8	1028.4	1031.6
40°	978.0	969.6	961.0	956.8	955.2
42.5°	902.1	895.8	892.1	876.7	873.0
45°	827.4	822.1	816.2	796.1	783.9
47.5°	751.0	749.9	745.2	709.7	697.5
50°	679.9	678.4	661.3	623.8	611.5
52.5°	612.6	602.0	579.7	542.6	540.4
55°	544.7	527.7	495.9	471.5	470.4
57.5°	473.1	453.0	420.6	407.3	414.3
60°	415.8	385.0	348.0	349.5	360.7
62.5°	356.4	321.9	285.3	301.3	314.5
65°	306.6	270.0	231.3	262.6	280.5
67.5°	263.1	229.1	192.0	233.9	251.4
70°	227.0	199.4	163.3	207.3	227.0
72.5°	198.4	172.9	144.8	186.2	209.0
75°	171.8	149.0	131.5	163.9	189.4
77.5°	149.0	126.8	118.8	144.8	169.7
80°	125.1	105.0	104.0	126.2	144.8
82.5°	97.6	83.8	83.8	105.5	116.7
85°	69.0	60.5	58.9	76.9	78.0
87.5°	35.5	34.0	30.8	40.3	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)