

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: P219086

Luminaire Tested: **24GR-LD5-38-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219086
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-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164.4 lumens
Efficiency: N/A
Efficacy: 103.3 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

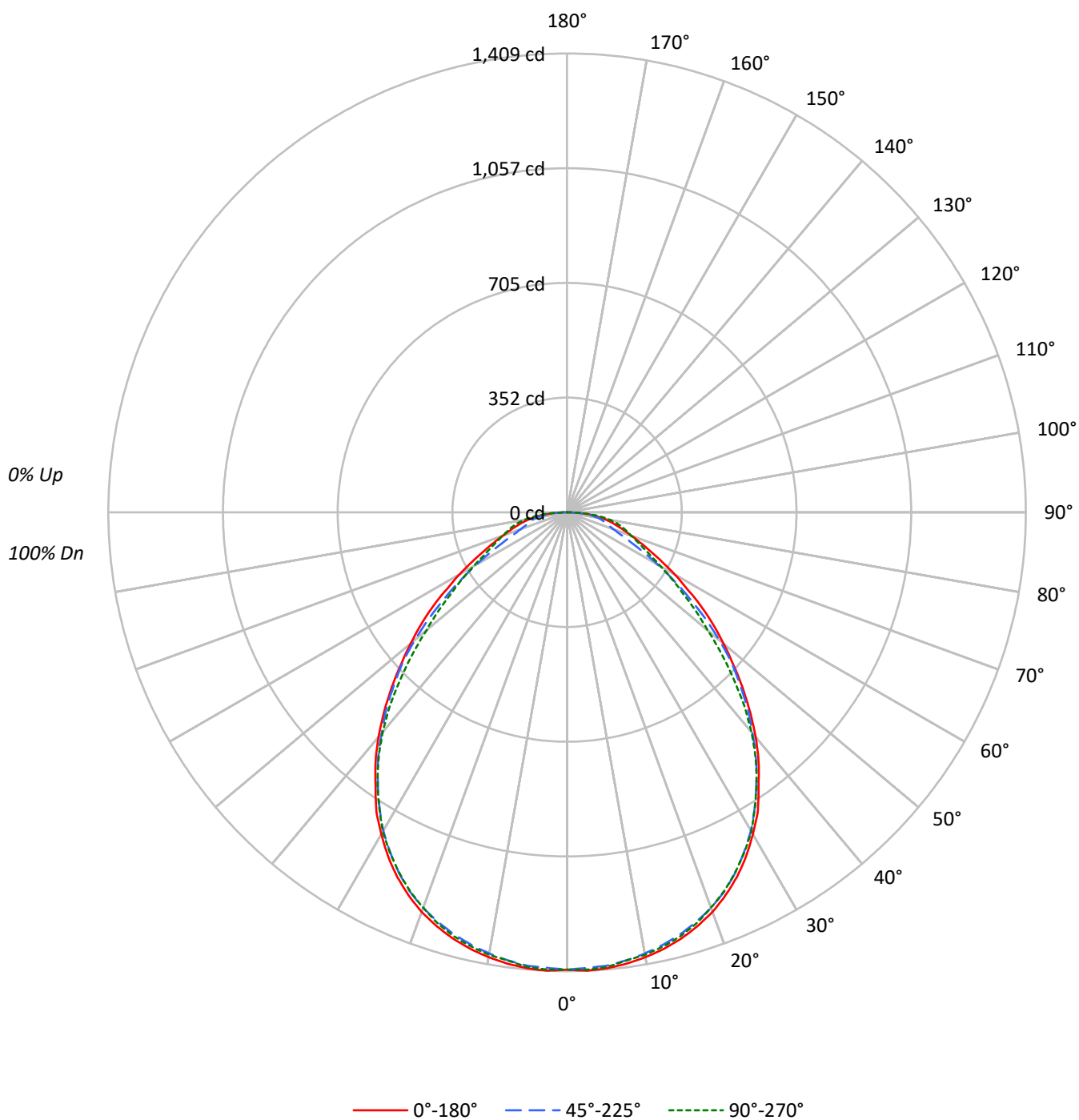
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2150	2150	2150
5°	2161	2149	2154
10°	2157	2139	2146
15°	2149	2127	2136
20°	2128	2107	2106
25°	2087	2064	2063
30°	2018	1997	2001
35°	1917	1895	1897
40°	1802	1771	1760
45°	1652	1630	1565
50°	1493	1453	1343
55°	1341	1221	1158
60°	1174	982	1018
65°	1024	772	937
70°	937	674	937
75°	937	717	1033
80°	1018	845	1178
85°	1118	954	1262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	4.2
10°-20°	379.4	12.0
20°-30°	562.6	17.8
30°-40°	634.7	20.1
40°-50°	574.8	18.2
50°-60°	414.7	13.1
60°-70°	247.6	7.8
70°-80°	153.0	4.8
80°-90°	64.5	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°	1075.0	34.0
0°-40°	1709.7	54.0
0°-60°	2699.2	85.3
0°-90°	3164.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1406	1404	1398	1396	1401	134
15°	1355	1347	1341	1342	1347	382
25°	1235	1228	1222	1217	1221	567
35°	1025	1024	1013	1014	1015	641
45°	763	758	752	734	722	588
55°	502	486	457	435	434	448
65°	283	249	213	242	259	284
75°	158	137	121	151	174	169
85°	64	56	54	71	72	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1404.0	1404.0	1404.0	1404.0	1404.0
2.5°	1408.8	1405.0	1400.1	1403.0	1405.5
5°	1405.5	1403.5	1397.6	1396.1	1401.1
7.5°	1398.1	1393.3	1387.8	1390.3	1388.3
10°	1386.9	1382.4	1375.6	1376.1	1379.6
12.5°	1373.2	1367.8	1360.5	1362.4	1365.4
15°	1355.1	1346.8	1341.4	1341.9	1347.3
17.5°	1332.1	1325.8	1318.9	1320.4	1322.8
20°	1305.7	1302.3	1292.5	1289.6	1292.1
22.5°	1272.5	1266.2	1260.8	1259.3	1259.8
25°	1234.8	1228.0	1221.6	1217.2	1220.7
27.5°	1190.8	1185.0	1176.7	1175.2	1178.1
30°	1140.9	1136.6	1129.2	1127.3	1131.7
32.5°	1090.1	1082.8	1072.6	1072.6	1073.5
35°	1025.1	1023.7	1013.4	1013.8	1014.8
37.5°	966.5	959.6	953.7	947.9	950.8
40°	901.4	893.6	885.8	881.9	880.4
42.5°	831.6	825.7	822.2	808.1	804.7
45°	762.6	757.7	752.3	733.7	722.5
47.5°	692.2	691.3	686.8	654.1	642.9
50°	626.7	625.2	609.6	574.9	563.7
52.5°	564.7	554.8	534.3	500.1	498.2
55°	502.1	486.4	457.1	434.6	433.6
57.5°	436.1	417.5	387.7	375.5	381.8
60°	383.3	354.9	320.7	322.2	332.4
62.5°	328.5	296.8	263.0	277.7	289.9
65°	282.6	248.8	213.1	242.0	258.6
67.5°	242.5	211.2	177.0	215.6	231.7
70°	209.3	183.8	150.6	191.1	209.3
72.5°	182.9	159.3	133.5	171.6	192.6
75°	158.4	137.4	121.2	151.0	174.5
77.5°	137.4	116.8	109.5	133.5	156.5
80°	115.4	96.8	95.8	116.4	133.5
82.5°	90.0	77.2	77.2	97.3	107.6
85°	63.6	55.8	54.3	70.8	71.8
87.5°	32.7	31.3	28.4	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)