

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: P219146

Luminaire Tested: **24GR-LD5-38-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219146
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-A125-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3133.5 lumens
Efficiency: N/A
Efficacy: 102.3 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

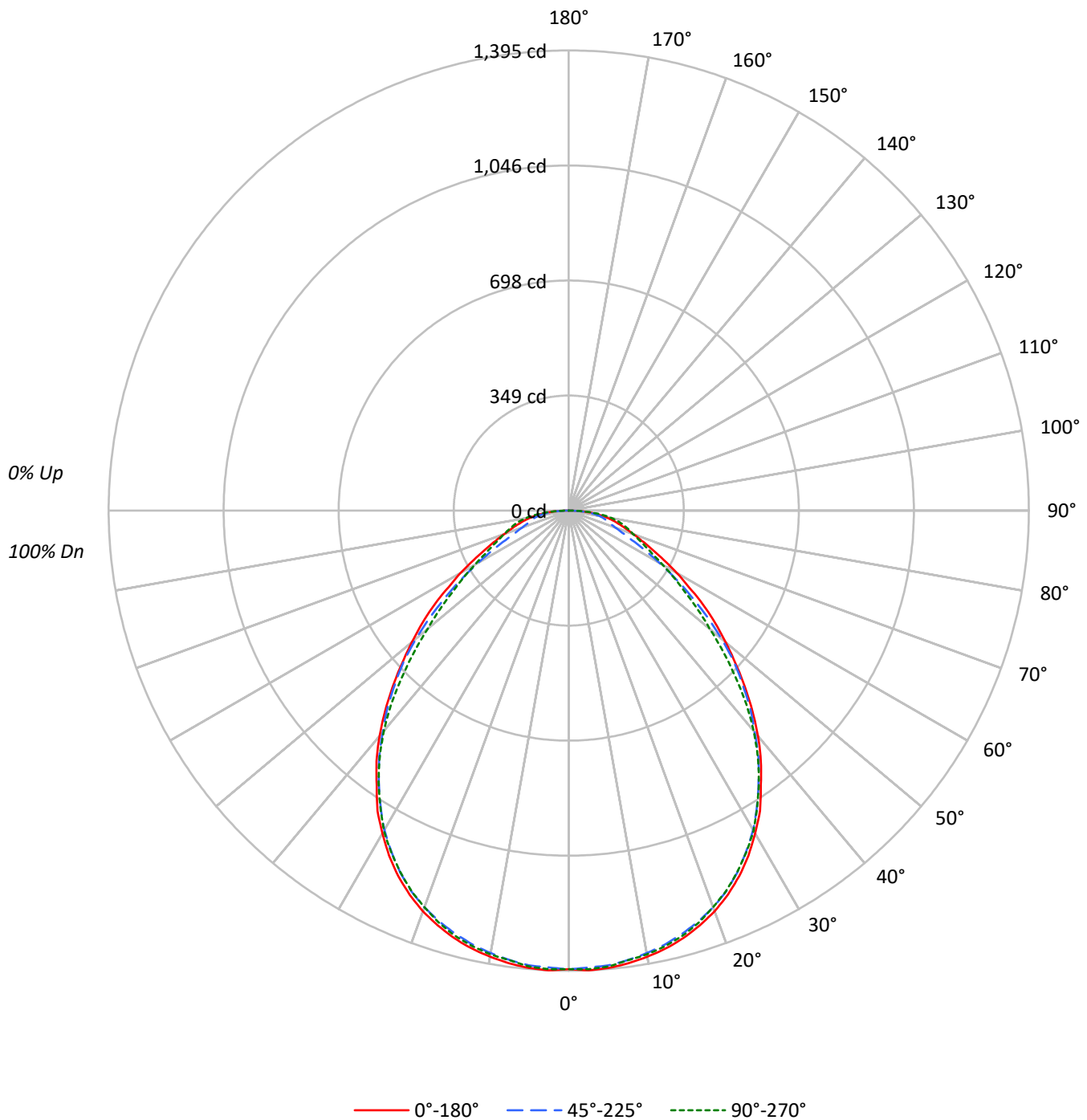
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219146

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P219146

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L930-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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2129	2129	2129
5°	2140	2128	2133
10°	2136	2119	2125
15°	2128	2106	2115
20°	2107	2086	2085
25°	2066	2044	2043
30°	1998	1978	1982
35°	1898	1876	1879
40°	1785	1754	1743
45°	1636	1614	1550
50°	1479	1438	1330
55°	1328	1209	1147
60°	1163	973	1008
65°	1014	765	928
70°	928	668	928
75°	928	710	1023
80°	1007	837	1166
85°	1105	944	1251



TEST NUMBER: P219146

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	4.2
10°-20°	375.7	12.0
20°-30°	557.1	17.8
30°-40°	628.5	20.1
40°-50°	569.2	18.2
50°-60°	410.7	13.1
60°-70°	245.2	7.8
70°-80°	151.6	4.8
80°-90°	63.9	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°	1064.5	34.0
0°-40°	1693.0	54.0
0°-60°	2672.9	85.3
0°-90°	3133.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1392	1390	1384	1383	1387	132
15°	1342	1334	1328	1329	1334	378
25°	1223	1216	1210	1205	1209	562
35°	1015	1014	1004	1004	1005	635
45°	755	750	745	727	715	582
55°	497	482	453	430	429	444
65°	280	246	211	240	256	281
75°	157	136	120	150	173	168
85°	63	55	54	70	71	66
90°	0	0	0	0	0	



TEST NUMBER: P219146

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.3	1390.3	1390.3	1390.3	1390.3
2.5°	1395.1	1391.3	1386.5	1389.3	1391.8
5°	1391.8	1389.8	1384.0	1382.6	1387.4
7.5°	1384.5	1379.6	1374.3	1376.8	1374.8
10°	1373.3	1369.0	1362.3	1362.8	1366.1
12.5°	1359.8	1354.5	1347.3	1349.1	1352.1
15°	1341.9	1333.6	1328.3	1328.8	1334.1
17.5°	1319.1	1312.8	1306.1	1307.6	1309.9
20°	1293.0	1289.6	1279.9	1277.1	1279.4
22.5°	1260.1	1253.8	1248.4	1247.1	1247.5
25°	1222.8	1216.1	1209.7	1205.4	1208.8
27.5°	1179.2	1173.4	1165.2	1163.7	1166.7
30°	1129.9	1125.5	1118.2	1116.3	1120.7
32.5°	1079.5	1072.2	1062.1	1062.1	1063.0
35°	1015.2	1013.7	1003.5	1004.0	1005.0
37.5°	957.0	950.3	944.5	938.7	941.5
40°	892.7	884.9	877.2	873.3	871.8
42.5°	823.4	817.6	814.3	800.2	796.8
45°	755.2	750.4	745.1	726.6	715.4
47.5°	685.4	684.5	680.2	647.7	636.6
50°	620.6	619.2	603.7	569.3	558.2
52.5°	559.2	549.5	529.1	495.2	493.3
55°	497.2	481.7	452.6	430.3	429.4
57.5°	431.8	413.4	383.9	371.8	378.1
60°	379.5	351.5	317.6	319.0	329.1
62.5°	325.3	293.8	260.4	274.9	287.1
65°	279.8	246.4	211.1	239.6	256.1
67.5°	240.1	209.1	175.2	213.4	229.4
70°	207.2	182.0	149.1	189.3	207.2
72.5°	181.1	157.8	132.2	169.9	190.7
75°	156.9	136.0	120.0	149.6	172.9
77.5°	136.0	115.7	108.4	132.2	154.9
80°	114.2	95.9	94.9	115.2	132.2
82.5°	89.1	76.5	76.5	96.4	106.5
85°	62.9	55.2	53.7	70.2	71.2
87.5°	32.5	31.0	28.0	36.8	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)