

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: P219160

Luminaire Tested: **24GR-LD5-34-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219160
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-LD5-34-A125-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945.6 lumens
Efficiency: N/A
Efficacy: 110.1 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

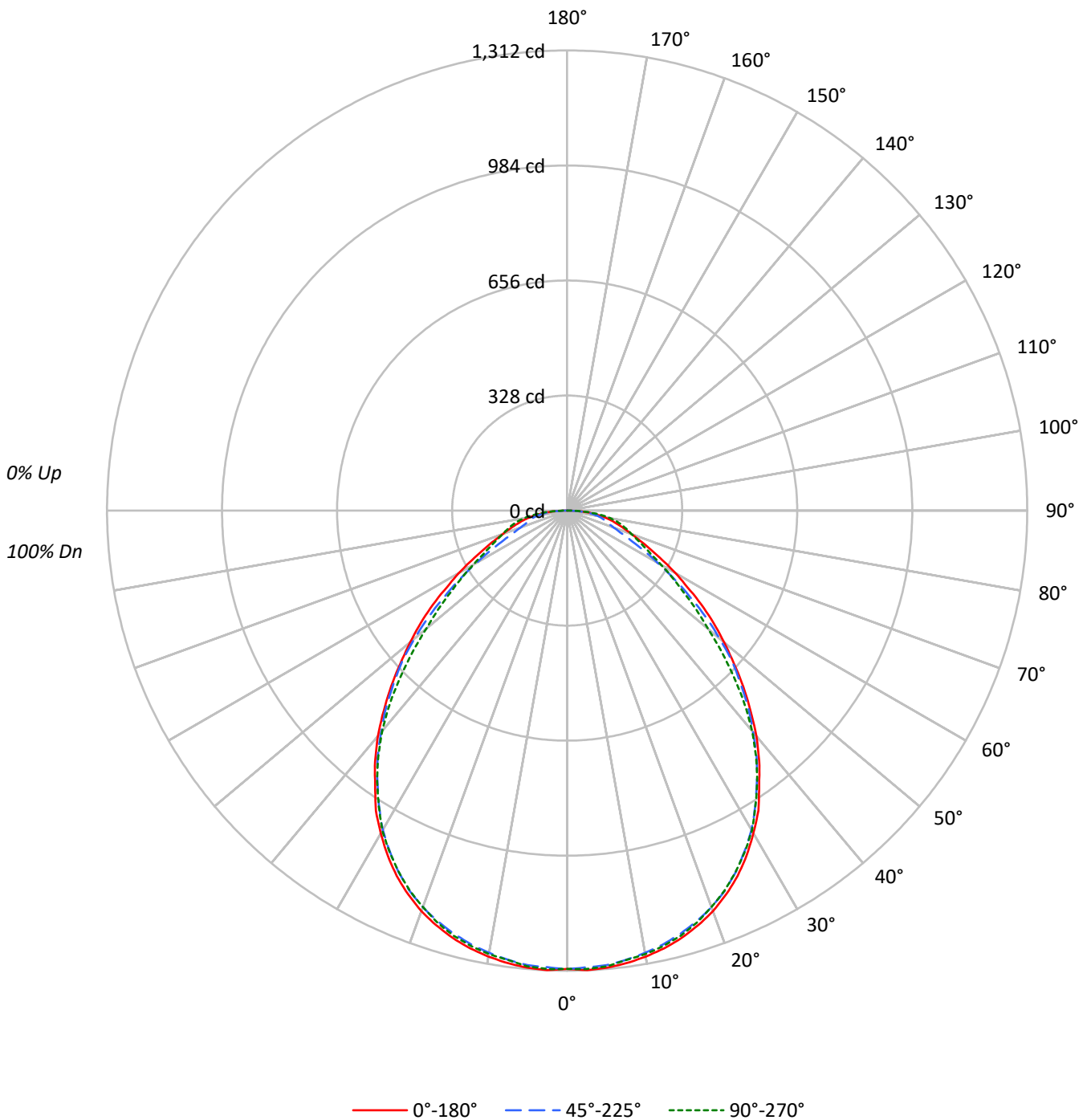
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219160

CATALOG NUMBER: 24GR-LD5-34-A125-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P219160

CATALOG NUMBER: 24GR-LD5-34-A125-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	2002	2002	2002
5°	2011	2000	2005
10°	2008	1992	1997
15°	2000	1980	1989
20°	1981	1961	1960
25°	1943	1922	1920
30°	1879	1859	1863
35°	1784	1764	1766
40°	1678	1649	1639
45°	1538	1517	1457
50°	1390	1352	1250
55°	1248	1136	1078
60°	1093	914	948
65°	953	719	872
70°	872	628	872
75°	873	668	961
80°	947	787	1096
85°	1040	887	1176



TEST NUMBER: P219160

CATALOG NUMBER: 24GR-LD5-34-A125-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	4.2
10°-20°	353.2	12.0
20°-30°	523.7	17.8
30°-40°	590.8	20.1
40°-50°	535.1	18.2
50°-60°	386.1	13.1
60°-70°	230.5	7.8
70°-80°	142.5	4.8
80°-90°	60.0	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°	1000.7	34.0
0°-40°	1591.5	54.0
0°-60°	2512.7	85.3
0°-90°	2945.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2945.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1308	1306	1301	1300	1304	124
15°	1262	1254	1249	1249	1254	356
25°	1150	1143	1137	1133	1136	528
35°	954	953	943	944	945	597
45°	710	705	700	683	673	547
55°	467	453	426	404	404	417
65°	263	232	198	225	241	265
75°	148	128	113	141	162	157
85°	59	52	50	66	67	62
90°	0	0	0	0	0	



TEST NUMBER: P219160

CATALOG NUMBER: 24GR-LD5-34-A125-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1307.0	1307.0	1307.0	1307.0	1307.0
2.5°	1311.6	1307.9	1303.3	1306.0	1308.3
5°	1308.3	1306.5	1301.0	1299.6	1304.2
7.5°	1301.5	1296.9	1291.9	1294.2	1292.4
10°	1291.1	1286.9	1280.5	1281.0	1284.2
12.5°	1278.3	1273.3	1266.4	1268.3	1271.0
15°	1261.5	1253.8	1248.7	1249.2	1254.2
17.5°	1240.1	1234.1	1227.7	1229.1	1231.4
20°	1215.5	1212.3	1203.2	1200.5	1202.8
22.5°	1184.6	1178.6	1173.6	1172.2	1172.7
25°	1149.5	1143.2	1137.2	1133.1	1136.3
27.5°	1108.6	1103.0	1095.3	1094.0	1096.8
30°	1062.2	1058.0	1051.2	1049.4	1053.5
32.5°	1014.8	1008.0	998.4	998.4	999.3
35°	954.3	952.9	943.3	943.8	944.7
37.5°	899.6	893.3	887.8	882.4	885.1
40°	839.1	831.9	824.6	820.9	819.6
42.5°	774.1	768.6	765.4	752.2	749.0
45°	709.9	705.3	700.3	683.1	672.6
47.5°	644.4	643.4	639.4	608.9	598.4
50°	583.4	582.0	567.5	535.2	524.7
52.5°	525.6	516.5	497.4	465.5	463.7
55°	467.3	452.8	425.5	404.5	403.7
57.5°	406.0	388.6	360.9	349.5	355.4
60°	356.7	330.4	298.5	299.9	309.5
62.5°	305.8	276.2	244.8	258.5	269.9
65°	263.0	231.6	198.4	225.2	240.7
67.5°	225.7	196.6	164.7	200.7	215.7
70°	194.7	171.1	140.2	177.9	194.7
72.5°	170.2	148.3	124.3	159.7	179.3
75°	147.5	127.8	112.9	140.6	162.4
77.5°	127.8	108.8	101.9	124.3	145.6
80°	107.4	90.1	89.2	108.3	124.3
82.5°	83.7	71.9	71.9	90.5	100.1
85°	59.2	51.8	50.5	66.0	66.9
87.5°	30.5	29.2	26.4	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)