

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: P219115

Luminaire Tested: **24GR-LD5-34-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219115
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-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: 3060.6 lumens
Efficiency: N/A
Efficacy: 114.4 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

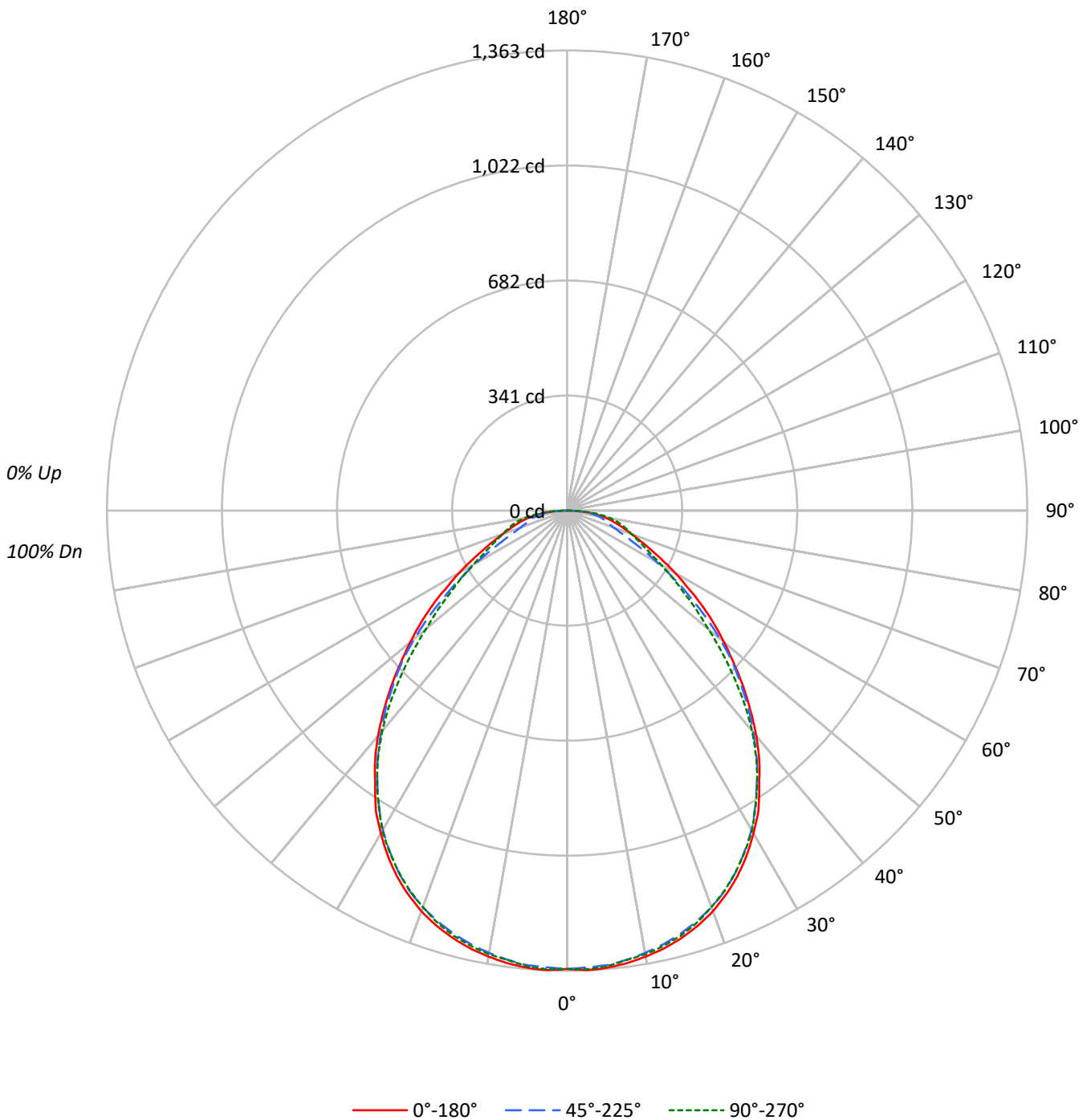
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2080	2080	2080
5°	2090	2078	2083
10°	2086	2069	2075
15°	2078	2057	2066
20°	2058	2038	2037
25°	2018	1997	1995
30°	1952	1932	1936
35°	1854	1833	1835
40°	1743	1713	1703
45°	1598	1576	1514
50°	1444	1405	1299
55°	1297	1181	1120
60°	1136	950	985
65°	990	747	906
70°	906	652	906
75°	907	694	999
80°	984	818	1139
85°	1081	923	1221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	4.2
10°-20°	367.0	12.0
20°-30°	544.2	17.8
30°-40°	613.9	20.1
40°-50°	556.0	18.2
50°-60°	401.1	13.1
60°-70°	239.5	7.8
70°-80°	148.0	4.8
80°-90°	62.4	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°	1039.7	34.0
0°-40°	1653.6	54.0
0°-60°	2610.7	85.3
0°-90°	3060.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1359	1358	1352	1350	1355	129
15°	1311	1303	1298	1298	1303	369
25°	1194	1188	1182	1177	1181	549
35°	992	990	980	981	982	620
45°	738	733	728	710	699	568
55°	486	470	442	420	419	433
65°	273	241	206	234	250	275
75°	153	133	117	146	169	164
85°	62	54	52	68	70	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.9	1357.9	1357.9	1357.9	1357.9
2.5°	1362.7	1358.9	1354.2	1357.0	1359.4
5°	1359.4	1357.5	1351.8	1350.4	1355.1
7.5°	1352.3	1347.5	1342.4	1344.7	1342.8
10°	1341.4	1337.1	1330.5	1331.0	1334.3
12.5°	1328.2	1322.9	1315.9	1317.8	1320.6
15°	1310.6	1302.6	1297.5	1297.9	1303.1
17.5°	1288.5	1282.3	1275.7	1277.1	1279.5
20°	1262.9	1259.6	1250.2	1247.3	1249.7
22.5°	1230.7	1224.6	1219.4	1218.0	1218.4
25°	1194.4	1187.7	1181.6	1177.3	1180.7
27.5°	1151.8	1146.1	1138.1	1136.7	1139.5
30°	1103.6	1099.3	1092.2	1090.3	1094.6
32.5°	1054.4	1047.3	1037.4	1037.4	1038.4
35°	991.5	990.1	980.1	980.7	981.6
37.5°	934.8	928.2	922.5	916.8	919.7
40°	871.9	864.3	856.7	852.9	851.6
42.5°	804.3	798.6	795.3	781.6	778.3
45°	737.6	732.9	727.6	709.7	698.8
47.5°	669.5	668.6	664.4	632.6	621.8
50°	606.1	604.8	589.6	556.1	545.2
52.5°	546.1	536.6	516.8	483.7	481.8
55°	485.6	470.5	442.1	420.4	419.4
57.5°	421.7	403.8	375.0	363.1	369.3
60°	370.7	343.3	310.2	311.6	321.6
62.5°	317.8	287.0	254.4	268.6	280.4
65°	273.3	240.6	206.1	234.1	250.1
67.5°	234.5	204.2	171.1	208.6	224.1
70°	202.4	177.8	145.6	184.9	202.4
72.5°	176.8	154.1	129.1	166.0	186.3
75°	153.2	132.9	117.3	146.1	168.8
77.5°	132.9	113.0	106.0	129.1	151.3
80°	111.6	93.7	92.7	112.6	129.1
82.5°	87.0	74.7	74.7	94.1	104.1
85°	61.5	53.9	52.5	68.5	69.5
87.5°	31.6	30.3	27.4	35.9	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)