

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: P293099

Luminaire Tested: **24GR-LD5-38-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3136.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

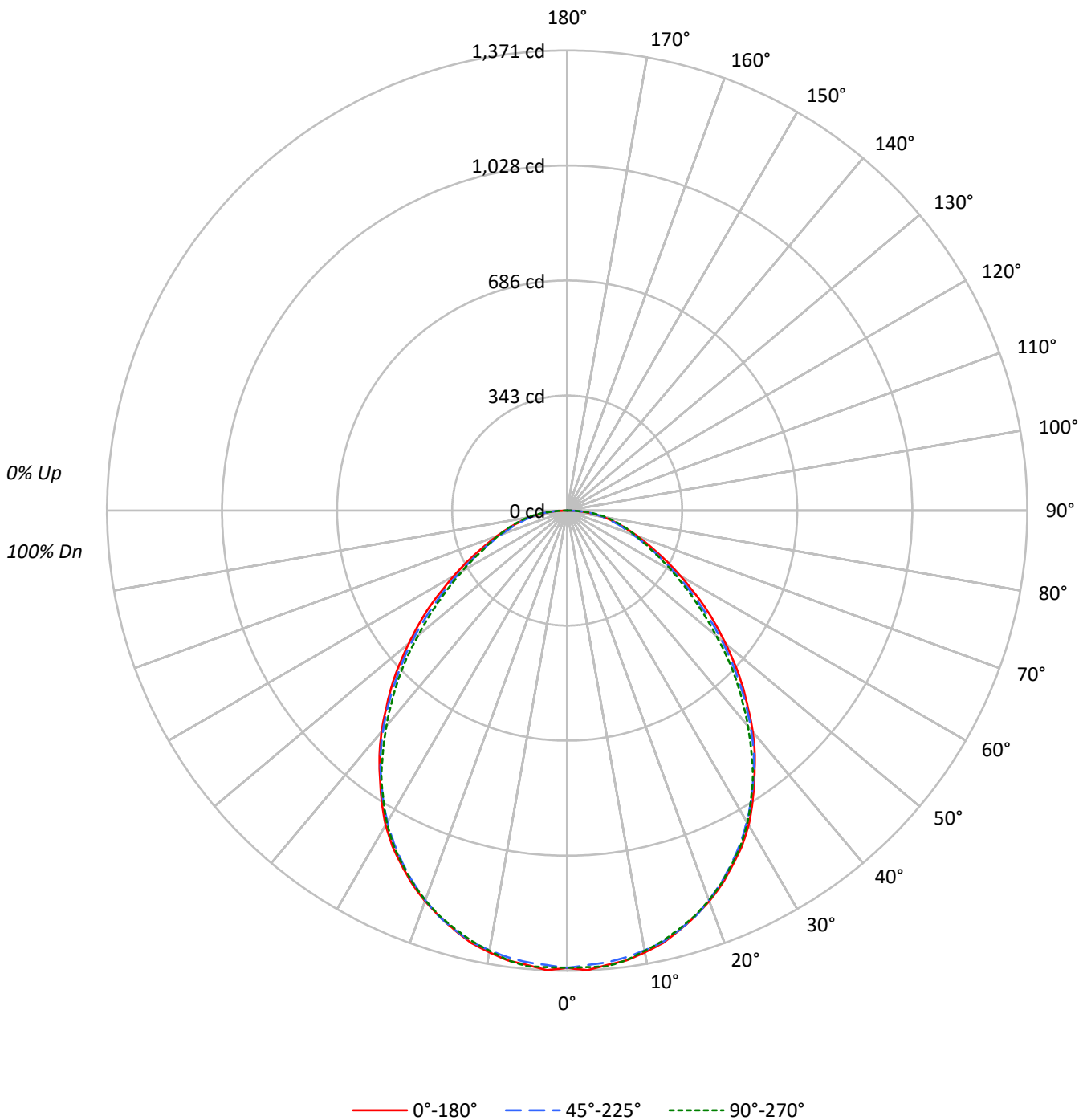
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293099

CATALOG NUMBER: 24GR-LD5-38-F1-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P293099

CATALOG NUMBER: 24GR-LD5-38-F1-UNV-L92765-W2A1-U-3000K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1833	1833	1833
5°	1836	1825	1841
10°	1826	1818	1820
15°	1803	1801	1797
20°	1773	1769	1769
25°	1731	1722	1726
30°	1681	1664	1669
35°	1597	1589	1585
40°	1512	1499	1472
45°	1406	1381	1354
50°	1288	1259	1212
55°	1176	1123	1085
60°	1048	997	971
65°	943	894	881
70°	875	822	855
75°	837	800	868
80°	837	837	927
85°	869	878	979



TEST NUMBER: P293099

CATALOG NUMBER: 24GR-LD5-38-F1-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	4.1
10°-20°	364.1	11.6
20°-30°	534.3	17.0
30°-40°	604.1	19.3
40°-50°	558.3	17.8
50°-60°	430.1	13.7
60°-70°	284.8	9.1
70°-80°	169.6	5.4
80°-90°	62.1	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°	1027.0	32.7
0°-40°	1631.1	52.0
0°-60°	2619.5	83.5
0°-90°	3136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1359	1359	1351	1352	1363	129
15°	1294	1292	1293	1292	1290	365
25°	1166	1163	1160	1158	1162	537
35°	972	971	968	963	965	608
45°	739	734	726	713	712	569
55°	501	491	479	466	462	447
65°	296	292	281	278	277	297
75°	161	157	154	161	167	172
85°	56	53	57	63	63	60
90°	0	0	0	0	0	



TEST NUMBER: P293099

CATALOG NUMBER: 24GR-LD5-38-F1-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.2	1362.2	1362.2	1362.2	1362.2
2.5°	1370.6	1363.5	1355.7	1355.7	1361.6
5°	1359.0	1359.0	1351.2	1351.9	1362.9
7.5°	1351.9	1348.0	1342.8	1342.8	1351.2
10°	1336.3	1333.1	1330.5	1329.2	1331.8
12.5°	1319.5	1314.3	1316.3	1314.3	1313.7
15°	1294.3	1291.7	1293.0	1292.3	1289.8
17.5°	1267.1	1265.8	1268.4	1263.9	1265.8
20°	1238.0	1234.1	1235.4	1232.8	1235.4
22.5°	1205.0	1202.4	1199.2	1196.0	1201.1
25°	1166.2	1163.0	1159.7	1158.5	1162.3
27.5°	1127.4	1122.2	1117.7	1116.4	1122.2
30°	1082.1	1076.3	1071.1	1069.8	1074.4
32.5°	1028.4	1027.2	1020.7	1018.1	1020.0
35°	972.2	970.9	967.6	963.1	965.1
37.5°	918.5	917.8	913.3	905.5	900.4
40°	860.9	856.4	853.2	842.2	838.3
42.5°	797.5	796.2	790.4	778.1	773.6
45°	738.7	733.5	725.7	712.8	711.5
47.5°	677.9	670.8	663.6	647.5	646.8
50°	615.1	610.0	601.5	585.4	578.9
52.5°	556.9	549.8	538.2	522.6	519.4
55°	501.3	490.9	478.6	465.7	462.5
57.5°	441.8	437.3	422.4	412.0	408.1
60°	389.4	385.5	370.6	360.9	360.9
62.5°	342.2	336.3	323.4	316.9	316.9
65°	296.2	291.7	280.7	278.1	276.8
67.5°	256.8	251.0	243.2	242.6	245.8
70°	222.5	215.4	208.9	215.4	217.3
72.5°	190.2	185.6	179.8	188.2	192.1
75°	161.1	157.2	153.9	161.1	166.9
77.5°	134.5	130.7	130.7	138.4	143.6
80°	108.0	105.4	108.0	114.5	119.7
82.5°	82.8	80.9	84.1	90.6	93.8
85°	56.3	53.0	56.9	62.7	63.4
87.5°	26.5	25.9	28.5	32.3	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)