

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: P293102

Luminaire Tested: **24GR-LD5-38-F1-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293102
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3487.0 lumens
Efficiency: N/A
Efficacy: 134.9 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

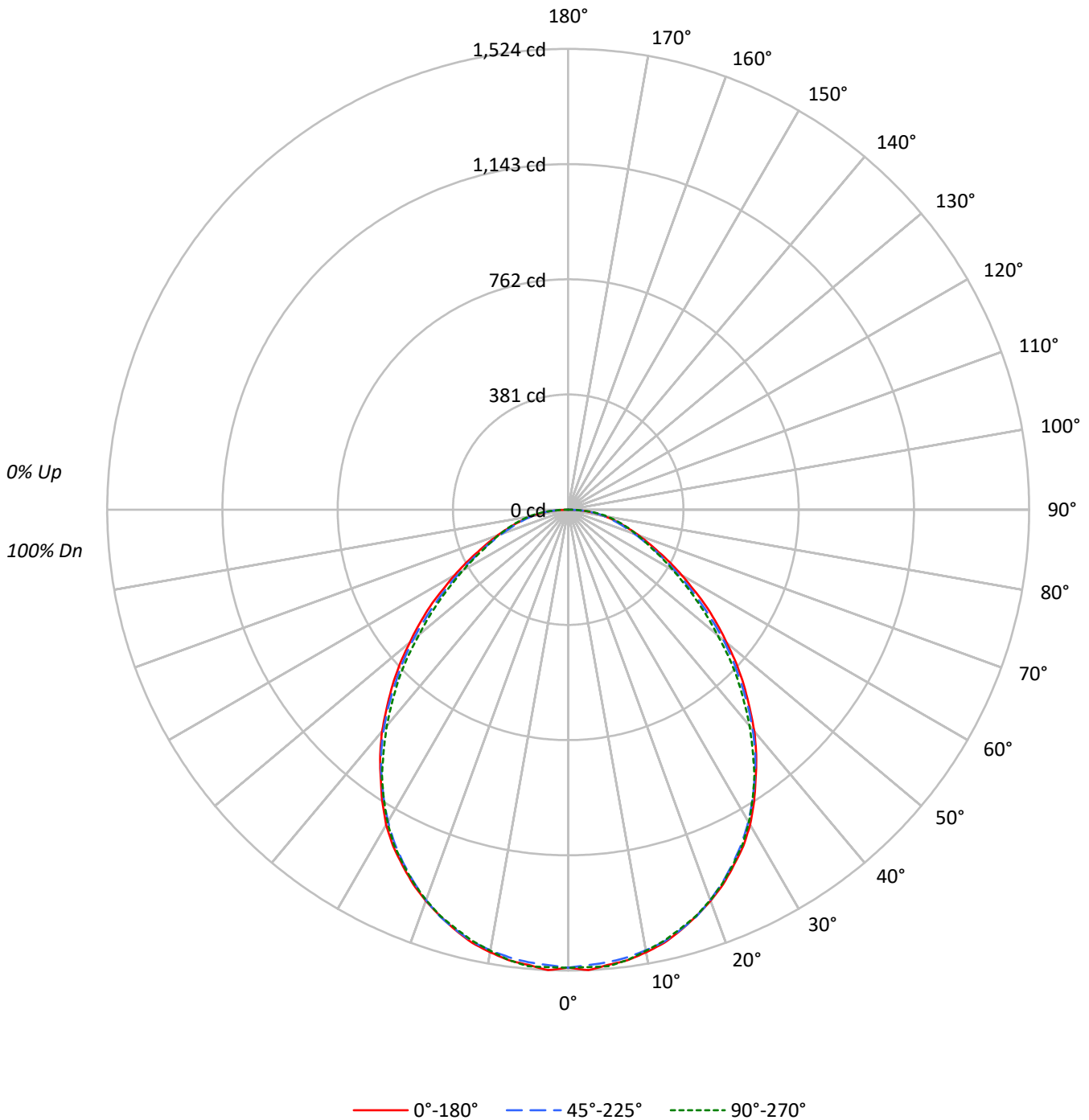
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2038	2038	2038
5°	2041	2029	2047
10°	2030	2021	2023
15°	2005	2003	1998
20°	1971	1967	1967
25°	1925	1915	1919
30°	1869	1850	1856
35°	1776	1767	1763
40°	1681	1666	1637
45°	1563	1536	1505
50°	1432	1400	1347
55°	1308	1248	1206
60°	1165	1109	1080
65°	1049	994	980
70°	973	914	951
75°	931	890	965
80°	931	931	1031
85°	966	977	1088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	4.1
10°-20°	404.8	11.6
20°-30°	594.1	17.0
30°-40°	671.7	19.3
40°-50°	620.8	17.8
50°-60°	478.3	13.7
60°-70°	316.7	9.1
70°-80°	188.5	5.4
80°-90°	69.1	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°	1142.0	32.7
0°-40°	1813.6	52.0
0°-60°	2912.7	83.5
0°-90°	3487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1511	1511	1502	1503	1515	144
15°	1439	1436	1438	1437	1434	406
25°	1297	1293	1290	1288	1292	597
35°	1081	1080	1076	1071	1073	676
45°	821	816	807	793	791	633
55°	557	546	532	518	514	497
65°	329	324	312	309	308	330
75°	179	175	171	179	186	191
85°	63	59	63	70	70	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.7	1514.7	1514.7	1514.7	1514.7
2.5°	1524.0	1516.1	1507.5	1507.5	1514.0
5°	1511.1	1511.1	1502.4	1503.2	1515.4
7.5°	1503.2	1498.8	1493.1	1493.1	1502.4
10°	1485.9	1482.3	1479.4	1478.0	1480.9
12.5°	1467.2	1461.4	1463.6	1461.4	1460.7
15°	1439.2	1436.3	1437.7	1437.0	1434.1
17.5°	1408.9	1407.5	1410.4	1405.3	1407.5
20°	1376.6	1372.3	1373.7	1370.8	1373.7
22.5°	1339.9	1337.0	1333.4	1329.8	1335.6
25°	1296.7	1293.2	1289.6	1288.1	1292.4
27.5°	1253.6	1247.8	1242.8	1241.4	1247.8
30°	1203.2	1196.8	1191.0	1189.6	1194.6
32.5°	1143.6	1142.1	1134.9	1132.0	1134.2
35°	1081.0	1079.5	1075.9	1070.9	1073.1
37.5°	1021.3	1020.6	1015.5	1006.9	1001.1
40°	957.3	952.2	948.6	936.4	932.1
42.5°	886.8	885.4	878.9	865.2	860.2
45°	821.3	815.6	807.0	792.6	791.1
47.5°	753.7	745.8	737.9	719.9	719.2
50°	684.0	678.2	668.9	650.9	643.7
52.5°	619.2	611.3	598.4	581.1	577.5
55°	557.4	545.9	532.2	517.8	514.2
57.5°	491.2	486.2	469.6	458.1	453.8
60°	433.0	428.7	412.1	401.3	401.3
62.5°	380.5	374.0	359.6	352.4	352.4
65°	329.4	324.4	312.1	309.3	307.8
67.5°	285.5	279.1	270.4	269.7	273.3
70°	247.4	239.5	232.3	239.5	241.7
72.5°	211.4	206.4	199.9	209.3	213.6
75°	179.1	174.8	171.2	179.1	185.6
77.5°	149.6	145.3	145.3	153.9	159.7
80°	120.1	117.2	120.1	127.3	133.1
82.5°	92.1	89.9	93.5	100.7	104.3
85°	62.6	59.0	63.3	69.8	70.5
87.5°	29.5	28.8	31.6	36.0	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)