

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: P292915

Luminaire Tested: **24GR-LD5-34-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292915
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-LD5-34-F1-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3491.0 lumens
Efficiency: N/A
Efficacy: 152.0 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

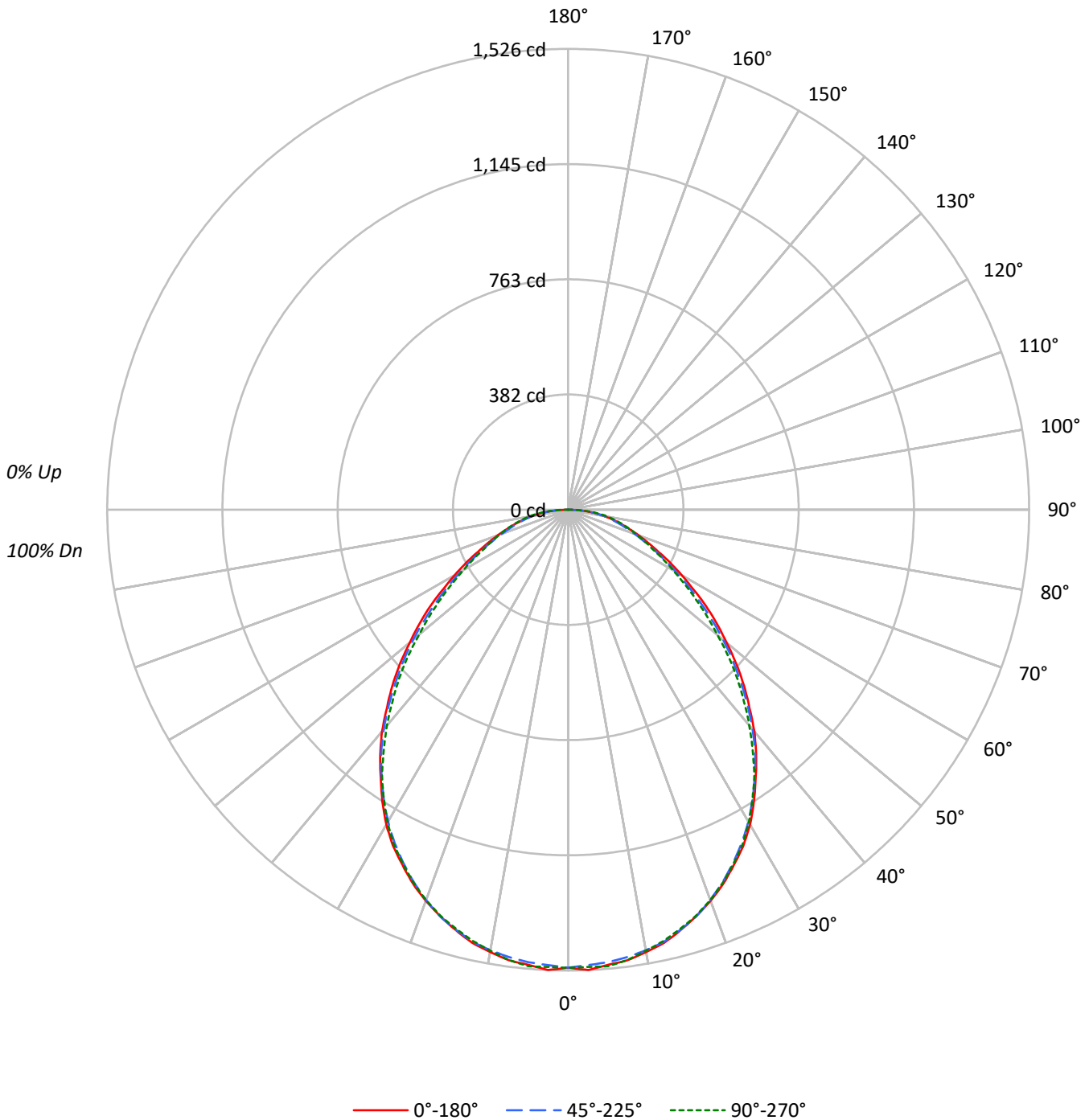
Input Watts (W): 22.971
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2040	2040	2040
5°	2043	2032	2049
10°	2032	2024	2026
15°	2007	2005	2000
20°	1973	1969	1969
25°	1927	1917	1921
30°	1872	1853	1858
35°	1778	1769	1765
40°	1683	1668	1639
45°	1565	1537	1507
50°	1433	1402	1349
55°	1309	1250	1208
60°	1167	1110	1081
65°	1050	995	981
70°	974	915	952
75°	932	891	966
80°	931	931	1032
85°	966	979	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	4.1
10°-20°	405.3	11.6
20°-30°	594.8	17.0
30°-40°	672.4	19.3
40°-50°	621.5	17.8
50°-60°	478.8	13.7
60°-70°	317.1	9.1
70°-80°	188.8	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°	1143.3	32.7
0°-40°	1815.7	52.0
0°-60°	2916.0	83.5
0°-90°	3491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1513	1513	1504	1505	1517	144
15°	1441	1438	1439	1439	1436	406
25°	1298	1295	1291	1290	1294	598
35°	1082	1081	1077	1072	1074	677
45°	822	816	808	794	792	633
55°	558	546	533	518	515	498
65°	330	325	312	310	308	331
75°	179	175	171	179	186	191
85°	63	59	63	70	71	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.4	1516.4	1516.4	1516.4	1516.4
2.5°	1525.8	1517.8	1509.2	1509.2	1515.7
5°	1512.8	1512.8	1504.2	1504.9	1517.1
7.5°	1504.9	1500.6	1494.8	1494.8	1504.2
10°	1487.6	1484.0	1481.1	1479.7	1482.6
12.5°	1468.9	1463.1	1465.3	1463.1	1462.4
15°	1440.8	1437.9	1439.4	1438.6	1435.8
17.5°	1410.6	1409.1	1412.0	1407.0	1409.1
20°	1378.2	1373.8	1375.3	1372.4	1375.3
22.5°	1341.4	1338.6	1335.0	1331.4	1337.1
25°	1298.2	1294.6	1291.0	1289.6	1293.9
27.5°	1255.0	1249.3	1244.2	1242.8	1249.3
30°	1204.6	1198.1	1192.4	1190.9	1196.0
32.5°	1144.9	1143.4	1136.2	1133.3	1135.5
35°	1082.2	1080.8	1077.2	1072.1	1074.3
37.5°	1022.5	1021.7	1016.7	1008.1	1002.3
40°	958.4	953.3	949.7	937.5	933.2
42.5°	887.8	886.4	879.9	866.2	861.2
45°	822.3	816.5	807.9	793.5	792.0
47.5°	754.6	746.7	738.8	720.8	720.0
50°	684.8	679.0	669.6	651.6	644.4
52.5°	620.0	612.0	599.1	581.8	578.2
55°	558.0	546.5	532.8	518.4	514.8
57.5°	491.8	486.7	470.2	458.7	454.3
60°	433.5	429.1	412.6	401.8	401.8
62.5°	380.9	374.4	360.0	352.8	352.8
65°	329.8	324.7	312.5	309.6	308.2
67.5°	285.9	279.4	270.7	270.0	273.6
70°	247.7	239.8	232.6	239.8	241.9
72.5°	211.7	206.7	200.2	209.5	213.9
75°	179.3	175.0	171.4	179.3	185.8
77.5°	149.8	145.4	145.4	154.1	159.8
80°	120.2	117.4	120.2	127.4	133.2
82.5°	92.2	90.0	93.6	100.8	104.4
85°	62.6	59.0	63.4	69.8	70.6
87.5°	29.5	28.8	31.7	36.0	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)