

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: P293103

Luminaire Tested: **24GR-LD5-38-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293103
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3557.0 lumens
Efficiency: N/A
Efficacy: 137.1 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

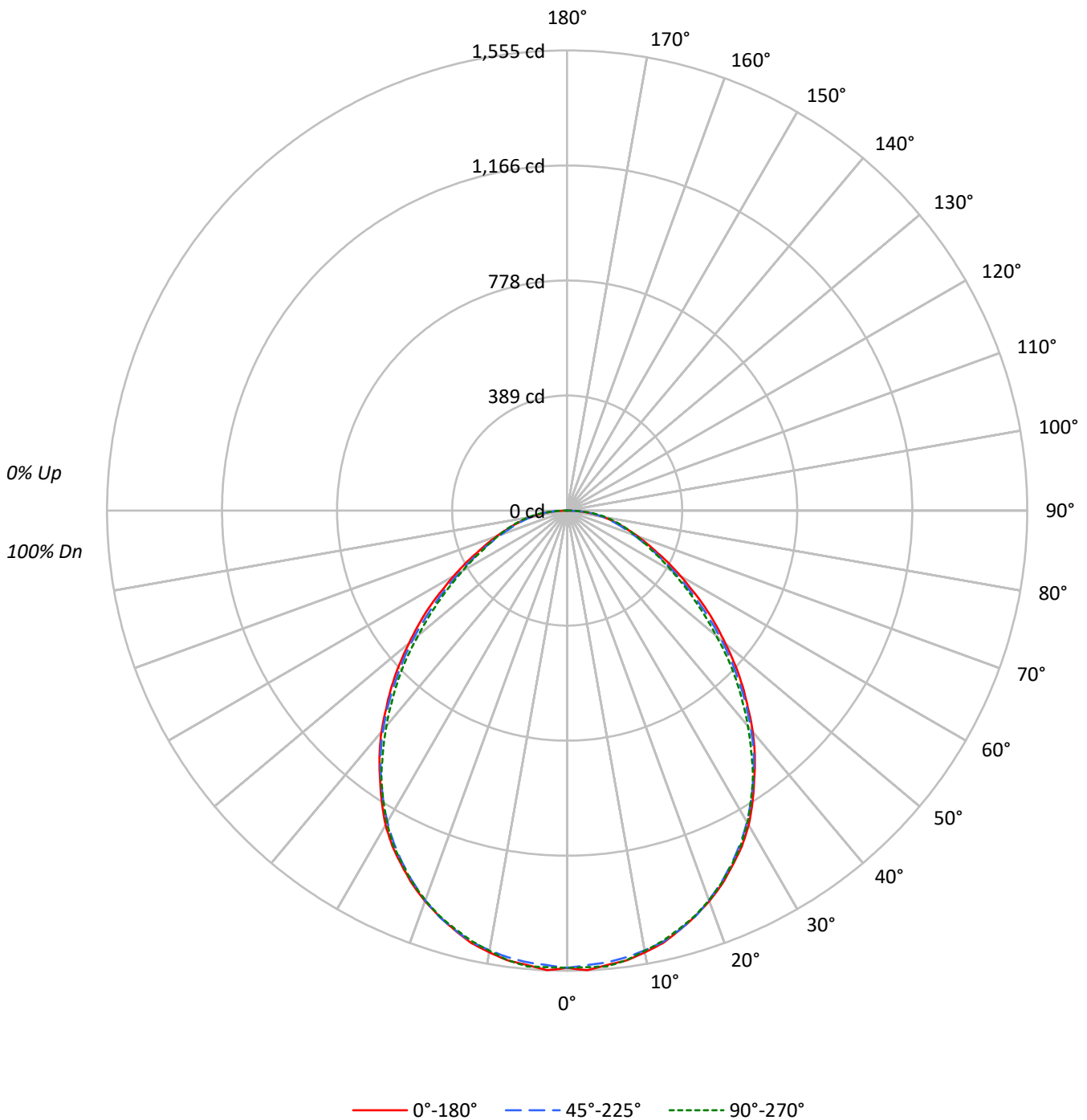
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2079	2079	2079
5°	2082	2070	2088
10°	2071	2062	2064
15°	2045	2043	2038
20°	2011	2006	2006
25°	1964	1953	1957
30°	1907	1888	1893
35°	1811	1803	1798
40°	1715	1700	1670
45°	1594	1566	1536
50°	1460	1428	1374
55°	1334	1274	1231
60°	1189	1131	1102
65°	1070	1014	1000
70°	993	932	970
75°	950	908	984
80°	949	949	1051
85°	985	997	1110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	4.1
10°-20°	412.9	11.6
20°-30°	606.0	17.0
30°-40°	685.2	19.3
40°-50°	633.2	17.8
50°-60°	487.9	13.7
60°-70°	323.1	9.1
70°-80°	192.3	5.4
80°-90°	70.5	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°	1164.9	32.7
0°-40°	1850.1	52.0
0°-60°	2971.2	83.5
0°-90°	3557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1541	1541	1533	1533	1546	146
15°	1468	1465	1467	1466	1463	414
25°	1323	1319	1315	1314	1318	609
35°	1103	1101	1098	1092	1095	690
45°	838	832	823	808	807	645
55°	569	557	543	528	525	507
65°	336	331	318	316	314	337
75°	183	178	175	183	189	195
85°	64	60	65	71	72	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.1	1545.1	1545.1	1545.1	1545.1
2.5°	1554.6	1546.5	1537.7	1537.7	1544.3
5°	1541.4	1541.4	1532.6	1533.3	1545.8
7.5°	1533.3	1528.9	1523.1	1523.1	1532.6
10°	1515.7	1512.1	1509.1	1507.7	1510.6
12.5°	1496.7	1490.8	1493.0	1490.8	1490.1
15°	1468.0	1465.1	1466.6	1465.8	1462.9
17.5°	1437.2	1435.8	1438.7	1433.6	1435.8
20°	1404.2	1399.8	1401.3	1398.3	1401.3
22.5°	1366.8	1363.9	1360.2	1356.5	1362.4
25°	1322.8	1319.1	1315.4	1314.0	1318.4
27.5°	1278.8	1272.9	1267.8	1266.3	1272.9
30°	1227.4	1220.8	1214.9	1213.5	1218.6
32.5°	1166.5	1165.0	1157.7	1154.8	1157.0
35°	1102.7	1101.2	1097.5	1092.4	1094.6
37.5°	1041.8	1041.1	1035.9	1027.1	1021.2
40°	976.5	971.4	967.7	955.2	950.8
42.5°	904.6	903.1	896.5	882.6	877.5
45°	837.8	832.0	823.2	808.5	807.0
47.5°	768.9	760.8	752.7	734.4	733.7
50°	697.7	691.8	682.3	664.0	656.6
52.5°	631.7	623.6	610.4	592.8	589.1
55°	568.6	556.8	542.9	528.2	524.6
57.5°	501.1	496.0	479.1	467.3	462.9
60°	441.7	437.3	420.4	409.4	409.4
62.5°	388.1	381.5	366.8	359.5	359.5
65°	336.0	330.9	318.4	315.5	314.0
67.5°	291.3	284.7	275.9	275.1	278.8
70°	252.4	244.3	237.0	244.3	246.5
72.5°	215.7	210.6	204.0	213.5	217.9
75°	182.7	178.3	174.6	182.7	189.3
77.5°	152.6	148.2	148.2	157.0	162.9
80°	122.5	119.6	122.5	129.9	135.7
82.5°	93.9	91.7	95.4	102.7	106.4
85°	63.8	60.2	64.6	71.2	71.9
87.5°	30.1	29.3	32.3	36.7	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)