

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: P293051

Luminaire Tested: **24GR-LD5-42-F1-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293051
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-LD5-42-F1-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3563.0 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

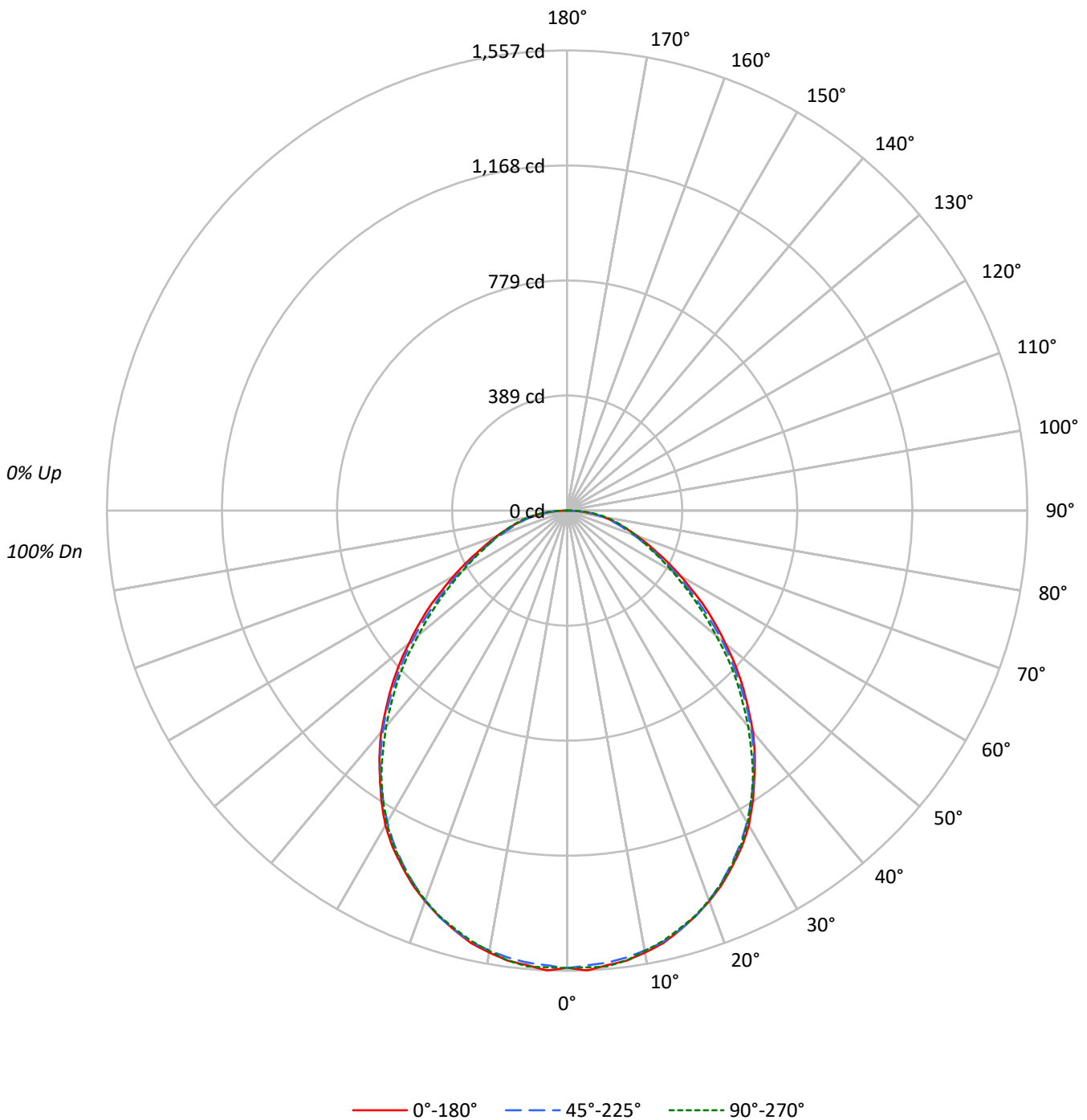
Input Watts (W): 28.524867
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2082	2082	2082
5°	2085	2073	2091
10°	2074	2065	2067
15°	2048	2046	2041
20°	2014	2010	2010
25°	1967	1956	1961
30°	1910	1891	1897
35°	1814	1806	1801
40°	1718	1702	1673
45°	1597	1569	1538
50°	1463	1430	1377
55°	1336	1276	1232
60°	1190	1133	1104
65°	1072	1015	1001
70°	995	934	971
75°	951	909	986
80°	951	951	1054
85°	986	999	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	4.1
10°-20°	413.6	11.6
20°-30°	607.1	17.0
30°-40°	686.3	19.3
40°-50°	634.3	17.8
50°-60°	488.7	13.7
60°-70°	323.6	9.1
70°-80°	192.6	5.4
80°-90°	70.6	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°	1166.8	32.7
0°-40°	1853.2	52.0
0°-60°	2976.2	83.5
0°-90°	3563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1544	1544	1535	1536	1548	147
15°	1470	1468	1469	1468	1465	414
25°	1325	1321	1318	1316	1321	610
35°	1104	1103	1099	1094	1096	691
45°	839	833	824	810	808	646
55°	570	558	544	529	525	508
65°	337	331	319	316	314	337
75°	183	179	175	183	190	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°	1547.7	1547.7	1547.7	1547.7	1547.7
2.5°	1557.2	1549.2	1540.3	1540.3	1546.9
5°	1544.0	1544.0	1535.2	1535.9	1548.4
7.5°	1535.9	1531.5	1525.6	1525.6	1535.2
10°	1518.3	1514.6	1511.7	1510.2	1513.1
12.5°	1499.2	1493.3	1495.5	1493.3	1492.6
15°	1470.5	1467.6	1469.0	1468.3	1465.4
17.5°	1439.7	1438.2	1441.1	1436.0	1438.2
20°	1406.6	1402.2	1403.6	1400.7	1403.6
22.5°	1369.1	1366.2	1362.5	1358.8	1364.7
25°	1325.0	1321.3	1317.7	1316.2	1320.6
27.5°	1280.9	1275.0	1269.9	1268.4	1275.0
30°	1229.5	1222.9	1217.0	1215.5	1220.7
32.5°	1168.5	1167.0	1159.7	1156.7	1158.9
35°	1104.5	1103.1	1099.4	1094.3	1096.5
37.5°	1043.5	1042.8	1037.7	1028.8	1023.0
40°	978.1	973.0	969.3	956.8	952.4
42.5°	906.1	904.7	898.0	884.1	878.9
45°	839.2	833.4	824.5	809.9	808.4
47.5°	770.2	762.1	754.0	735.6	734.9
50°	698.9	693.0	683.4	665.1	657.7
52.5°	632.7	624.7	611.4	593.8	590.1
55°	569.5	557.8	543.8	529.1	525.4
57.5°	501.9	496.8	479.9	468.1	463.7
60°	442.4	438.0	421.1	410.1	410.1
62.5°	388.8	382.1	367.4	360.1	360.1
65°	336.6	331.4	318.9	316.0	314.5
67.5°	291.8	285.1	276.3	275.6	279.3
70°	252.8	244.7	237.4	244.7	246.9
72.5°	216.1	210.9	204.3	213.9	218.3
75°	183.0	178.6	174.9	183.0	189.6
77.5°	152.9	148.4	148.4	157.3	163.1
80°	122.7	119.8	122.7	130.1	136.0
82.5°	94.1	91.9	95.5	102.9	106.6
85°	63.9	60.3	64.7	71.3	72.0
87.5°	30.1	29.4	32.3	36.7	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)