

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: P292926

Luminaire Tested: **24GR-LD5-42-F1-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292926
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-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4402.0 lumens
Efficiency: N/A
Efficacy: 153.7 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

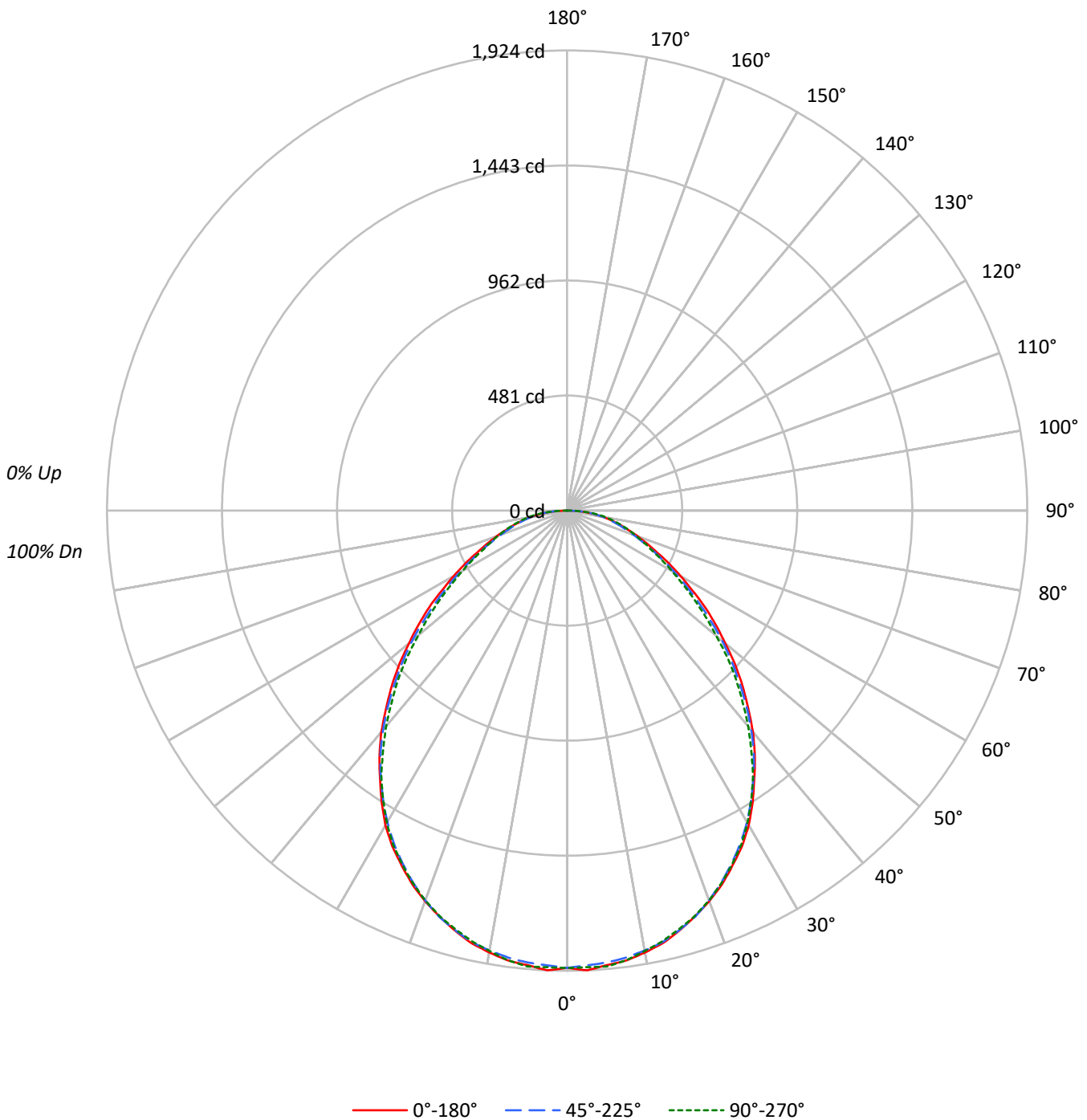
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2573	2573	2573
5°	2576	2562	2584
10°	2563	2552	2554
15°	2531	2528	2522
20°	2488	2483	2483
25°	2430	2417	2422
30°	2360	2336	2343
35°	2241	2231	2225
40°	2123	2103	2067
45°	1973	1938	1900
50°	1807	1768	1701
55°	1651	1576	1523
60°	1471	1400	1363
65°	1324	1254	1237
70°	1229	1154	1200
75°	1175	1123	1218
80°	1175	1175	1302
85°	1220	1233	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	4.1
10°-20°	511.0	11.6
20°-30°	750.0	17.0
30°-40°	847.9	19.3
40°-50°	783.7	17.8
50°-60°	603.8	13.7
60°-70°	399.8	9.1
70°-80°	238.0	5.4
80°-90°	87.2	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°	1441.6	32.7
0°-40°	2289.5	52.0
0°-60°	3677.0	83.5
0°-90°	4402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1908	1908	1897	1898	1913	181
15°	1817	1813	1815	1814	1810	512
25°	1637	1632	1628	1626	1632	754
35°	1365	1363	1358	1352	1355	854
45°	1037	1030	1019	1001	999	799
55°	704	689	672	654	649	628
65°	416	410	394	390	389	417
75°	226	221	216	226	234	241
85°	79	74	80	88	89	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.1	1912.1	1912.1	1912.1	1912.1
2.5°	1923.9	1913.9	1903.0	1903.0	1911.2
5°	1907.6	1907.6	1896.7	1897.6	1913.0
7.5°	1897.6	1892.1	1884.9	1884.9	1896.7
10°	1875.8	1871.3	1867.6	1865.8	1869.5
12.5°	1852.2	1844.9	1847.7	1844.9	1844.0
15°	1816.8	1813.2	1815.0	1814.1	1810.4
17.5°	1778.7	1776.8	1780.5	1774.1	1776.8
20°	1737.8	1732.4	1734.2	1730.5	1734.2
22.5°	1691.5	1687.9	1683.3	1678.8	1686.0
25°	1637.0	1632.5	1627.9	1626.1	1631.6
27.5°	1582.5	1575.3	1568.9	1567.1	1575.3
30°	1519.0	1510.8	1503.6	1501.7	1508.1
32.5°	1443.6	1441.8	1432.7	1429.1	1431.8
35°	1364.6	1362.8	1358.3	1351.9	1354.6
37.5°	1289.3	1288.4	1282.0	1271.1	1263.9
40°	1208.5	1202.1	1197.6	1182.1	1176.7
42.5°	1119.5	1117.7	1109.5	1092.3	1085.9
45°	1036.9	1029.6	1018.7	1000.6	998.7
47.5°	951.5	941.5	931.5	908.8	907.9
50°	863.5	856.2	844.4	821.7	812.6
52.5°	781.7	771.8	755.4	733.6	729.1
55°	703.7	689.1	671.9	653.7	649.2
57.5°	620.1	613.8	592.9	578.4	572.9
60°	546.6	541.1	520.3	506.6	506.6
62.5°	480.3	472.1	454.0	444.9	444.9
65°	415.8	409.5	394.0	390.4	388.6
67.5°	360.5	352.3	341.4	340.5	345.0
70°	312.3	302.3	293.3	302.3	305.1
72.5°	266.9	260.6	252.4	264.2	269.7
75°	226.1	220.6	216.1	226.1	234.2
77.5°	188.9	183.4	183.4	194.3	201.6
80°	151.6	148.0	151.6	160.7	168.0
82.5°	116.2	113.5	118.0	127.1	131.7
85°	79.0	74.5	79.9	88.1	89.0
87.5°	37.2	36.3	39.9	45.4	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)