

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: P292999

Luminaire Tested: **24GR-LD5-56-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292999
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-LD5-56-F1-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5171.0 lumens
Efficiency: N/A
Efficacy: 132.7 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

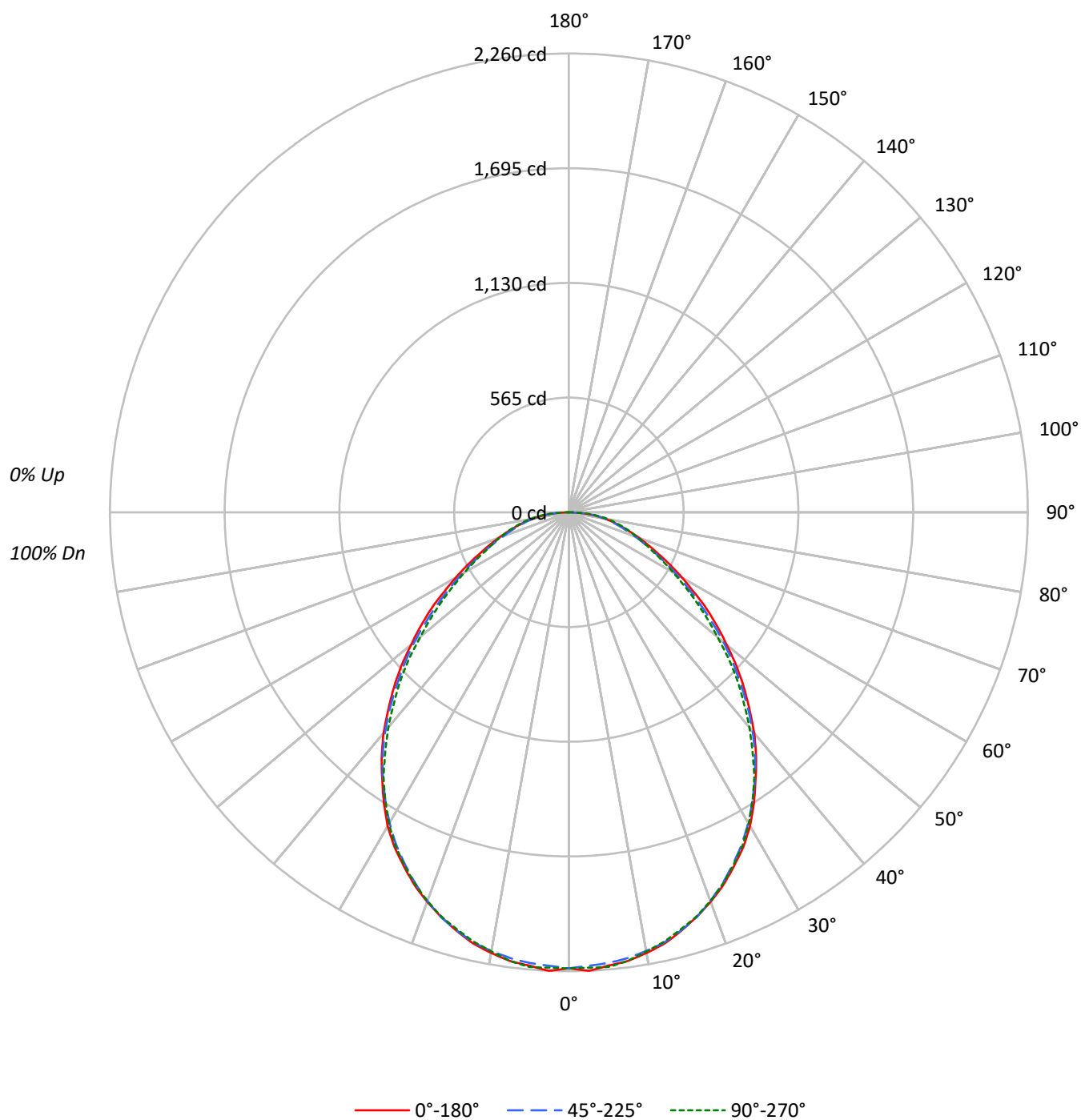
Input Watts (W): 38.967
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	74	68	90	81	73	68		78	72	67		75	70	65		72	68	64
4	85	73	65	59	83	72	64	58		70	63	58		67	62	57		65	60	56
5	78	66	58	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	45		56	49	44		54	48	44
7	68	55	46	40	66	54	46	40		52	45	40		51	44	40		50	44	39
8	63	50	42	36	62	49	42	36		48	41	36		47	40	36		46	40	36
9	59	46	38	33	58	46	38	33		44	38	33		43	37	32		42	37	32
10	56	43	35	30	54	42	35	30		41	34	30		40	34	30		39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3022	3022	3022
5°	3026	3009	3035
10°	3011	2997	3000
15°	2973	2970	2962
20°	2923	2917	2917
25°	2855	2839	2845
30°	2772	2744	2752
35°	2633	2621	2614
40°	2493	2471	2428
45°	2318	2277	2232
50°	2123	2076	1998
55°	1939	1851	1789
60°	1728	1644	1601
65°	1555	1474	1453
70°	1443	1355	1410
75°	1381	1319	1431
80°	1380	1380	1529
85°	1433	1450	1613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	4.1
10°-20°	600.3	11.6
20°-30°	881.0	17.0
30°-40°	996.1	19.3
40°-50°	920.6	17.8
50°-60°	709.3	13.7
60°-70°	469.7	9.1
70°-80°	279.6	5.4
80°-90°	102.4	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°	1693.5	32.7
0°-40°	2689.5	52.0
0°-60°	4319.4	83.5
0°-90°	5171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2246	2246	2246	2246	2246	
5°	2241	2241	2228	2229	2247	213
15°	2134	2130	2132	2131	2127	602
25°	1923	1918	1912	1910	1917	885
35°	1603	1601	1596	1588	1591	1003
45°	1218	1210	1197	1175	1173	938
55°	827	810	789	768	763	737
65°	488	481	463	459	456	490
75°	266	259	254	266	275	283
85°	93	88	94	104	104	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2246.2	2246.2	2246.2	2246.2	2246.2
2.5°	2260.0	2248.3	2235.5	2235.5	2245.1
5°	2240.8	2240.8	2228.0	2229.1	2247.2
7.5°	2229.1	2222.7	2214.2	2214.2	2228.0
10°	2203.5	2198.2	2193.9	2191.8	2196.0
12.5°	2175.8	2167.2	2170.4	2167.2	2166.2
15°	2134.2	2129.9	2132.0	2131.0	2126.7
17.5°	2089.4	2087.2	2091.5	2084.0	2087.2
20°	2041.4	2035.0	2037.1	2032.8	2037.1
22.5°	1987.0	1982.7	1977.4	1972.1	1980.6
25°	1923.0	1917.7	1912.3	1910.2	1916.6
27.5°	1859.0	1850.5	1843.0	1840.9	1850.5
30°	1784.3	1774.7	1766.2	1764.1	1771.5
32.5°	1695.8	1693.7	1683.0	1678.8	1682.0
35°	1603.0	1600.9	1595.6	1588.1	1591.3
37.5°	1514.5	1513.4	1506.0	1493.2	1484.6
40°	1419.6	1412.1	1406.8	1388.7	1382.3
42.5°	1315.1	1312.9	1303.3	1283.1	1275.6
45°	1218.0	1209.5	1196.7	1175.3	1173.2
47.5°	1117.7	1106.0	1094.3	1067.6	1066.6
50°	1014.3	1005.8	991.9	965.2	954.6
52.5°	918.3	906.6	887.4	861.8	856.4
55°	826.6	809.5	789.2	767.9	762.6
57.5°	728.5	721.0	696.5	679.4	673.0
60°	642.1	635.7	611.1	595.1	595.1
62.5°	564.2	554.6	533.3	522.6	522.6
65°	488.5	481.0	462.9	458.6	456.5
67.5°	423.4	413.8	401.0	400.0	405.3
70°	366.9	355.2	344.5	355.2	358.4
72.5°	313.6	306.1	296.5	310.4	316.8
75°	265.6	259.2	253.8	265.6	275.2
77.5°	221.8	215.4	215.4	228.2	236.8
80°	178.1	173.8	178.1	188.8	197.3
82.5°	136.5	133.3	138.7	149.3	154.7
85°	92.8	87.5	93.9	103.5	104.5
87.5°	43.7	42.7	46.9	53.3	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)