

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: P293130

Luminaire Tested: **24GR-LD5-56-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293130
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-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: 5209.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

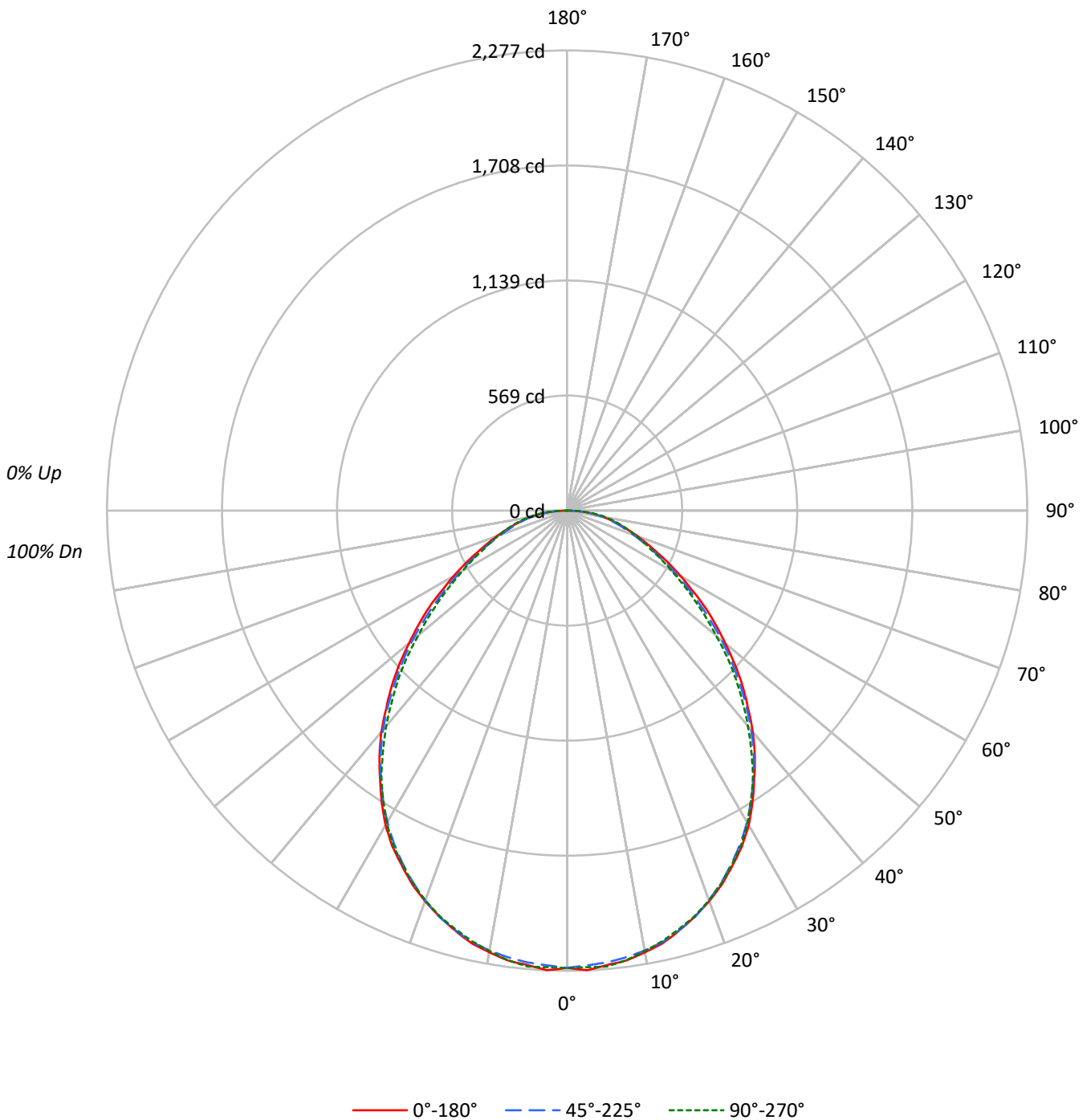
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3044	3044	3044
5°	3049	3031	3057
10°	3033	3019	3022
15°	2995	2992	2984
20°	2944	2938	2938
25°	2876	2860	2866
30°	2793	2764	2773
35°	2652	2640	2633
40°	2512	2489	2446
45°	2335	2294	2249
50°	2139	2092	2013
55°	1953	1865	1802
60°	1741	1657	1613
65°	1567	1485	1464
70°	1454	1365	1420
75°	1391	1329	1441
80°	1390	1390	1540
85°	1443	1459	1626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	4.1
10°-20°	604.7	11.6
20°-30°	887.5	17.0
30°-40°	1003.4	19.3
40°-50°	927.3	17.8
50°-60°	714.5	13.7
60°-70°	473.1	9.1
70°-80°	281.6	5.4
80°-90°	103.2	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°	1705.9	32.7
0°-40°	2709.3	52.0
0°-60°	4351.1	83.5
0°-90°	5209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2263	2263	2263	2263	2263	
5°	2257	2257	2244	2246	2264	215
15°	2150	2146	2148	2147	2142	606
25°	1937	1932	1926	1924	1931	892
35°	1615	1613	1607	1600	1603	1010
45°	1227	1218	1206	1184	1182	945
55°	833	816	795	774	768	743
65°	492	485	466	462	460	493
75°	268	261	256	268	277	285
85°	94	88	94	104	105	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2262.7	2262.7	2262.7	2262.7	2262.7
2.5°	2276.6	2264.8	2251.9	2251.9	2261.6
5°	2257.3	2257.3	2244.4	2245.5	2263.7
7.5°	2245.5	2239.0	2230.4	2230.4	2244.4
10°	2219.7	2214.3	2210.0	2207.9	2212.2
12.5°	2191.8	2183.2	2186.4	2183.2	2182.1
15°	2149.9	2145.6	2147.7	2146.6	2142.3
17.5°	2104.7	2102.6	2106.9	2099.4	2102.6
20°	2056.4	2049.9	2052.1	2047.8	2052.1
22.5°	2001.6	1997.3	1991.9	1986.5	1995.1
25°	1937.1	1931.8	1926.4	1924.2	1930.7
27.5°	1872.7	1864.1	1856.5	1854.4	1864.1
30°	1797.5	1787.8	1779.2	1777.0	1784.6
32.5°	1708.3	1706.1	1695.4	1691.1	1694.3
35°	1614.8	1612.7	1607.3	1599.8	1603.0
37.5°	1525.6	1524.6	1517.0	1504.1	1495.6
40°	1430.0	1422.5	1417.1	1398.9	1392.4
42.5°	1324.7	1322.6	1312.9	1292.5	1285.0
45°	1227.0	1218.4	1205.5	1184.0	1181.8
47.5°	1126.0	1114.1	1102.3	1075.5	1074.4
50°	1021.7	1013.2	999.2	972.3	961.6
52.5°	925.1	913.2	893.9	868.1	862.7
55°	832.7	815.5	795.0	773.6	768.2
57.5°	733.8	726.3	701.6	684.4	677.9
60°	646.8	640.3	615.6	599.5	599.5
62.5°	568.4	558.7	537.2	526.5	526.5
65°	492.1	484.6	466.3	462.0	459.8
67.5°	426.5	416.9	404.0	402.9	408.3
70°	369.6	357.8	347.0	357.8	361.0
72.5°	315.9	308.4	298.7	312.6	319.1
75°	267.5	261.1	255.7	267.5	277.2
77.5°	223.5	217.0	217.0	229.9	238.5
80°	179.4	175.1	179.4	190.2	198.8
82.5°	137.5	134.3	139.7	150.4	155.8
85°	93.5	88.1	94.5	104.2	105.3
87.5°	44.1	43.0	47.3	53.7	52.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)