

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: P293132

Luminaire Tested: **24GR-LD5-56-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293132
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5312.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

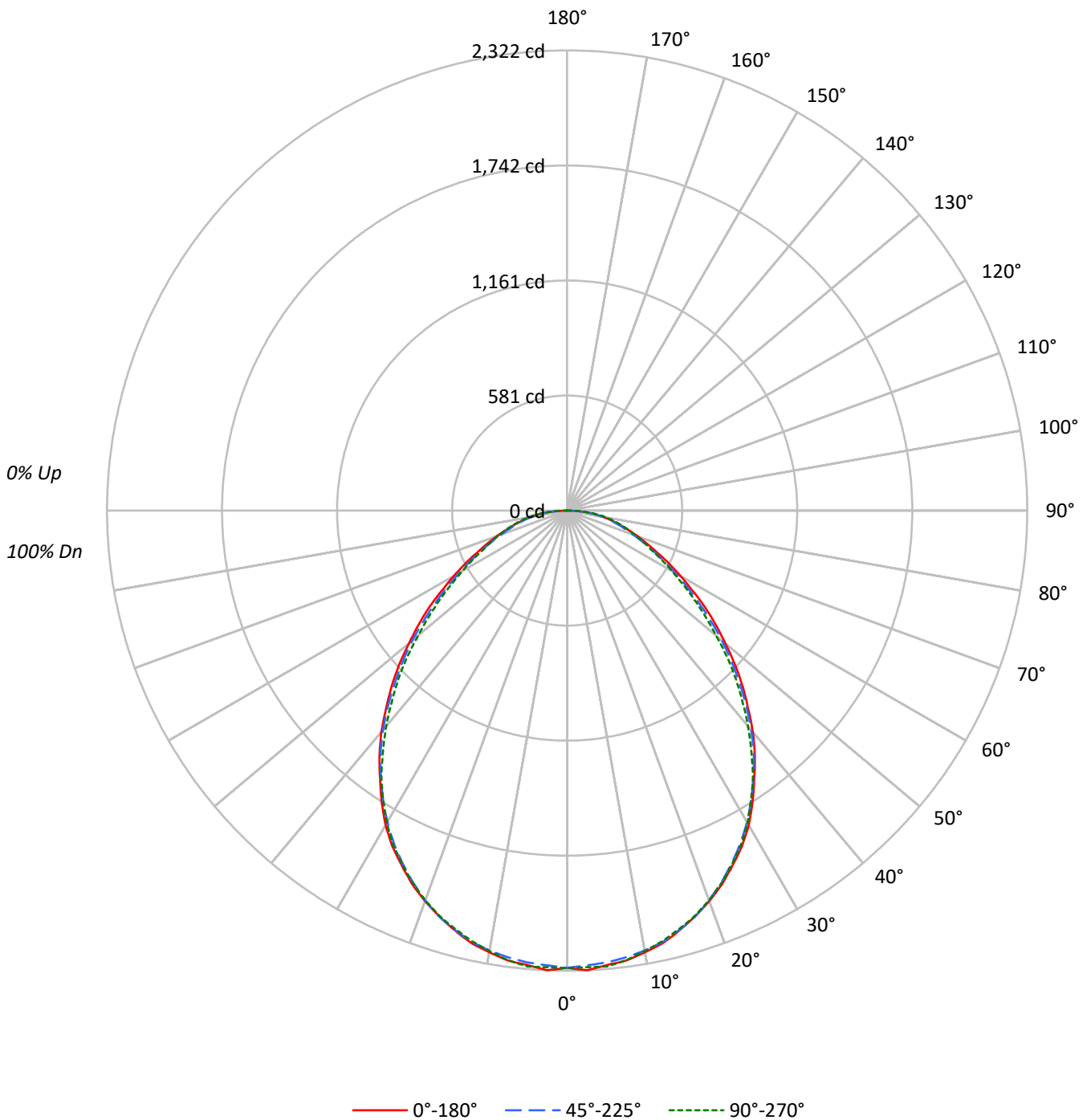
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3105	3105	3105
5°	3109	3091	3118
10°	3093	3079	3082
15°	3054	3051	3043
20°	3003	2996	2996
25°	2933	2916	2923
30°	2848	2819	2827
35°	2705	2692	2685
40°	2561	2538	2494
45°	2381	2339	2293
50°	2181	2133	2053
55°	1992	1902	1838
60°	1775	1689	1645
65°	1598	1514	1493
70°	1483	1392	1448
75°	1418	1356	1470
80°	1418	1418	1571
85°	1471	1488	1658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	4.1
10°-20°	616.7	11.6
20°-30°	905.1	17.0
30°-40°	1023.2	19.3
40°-50°	945.7	17.8
50°-60°	728.6	13.7
60°-70°	482.5	9.1
70°-80°	287.2	5.4
80°-90°	105.2	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°	1739.6	32.7
0°-40°	2762.9	52.0
0°-60°	4437.1	83.5
0°-90°	5312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2307	2307	2307	2307	2307	
5°	2302	2302	2289	2290	2308	219
15°	2192	2188	2190	2189	2185	618
25°	1975	1970	1964	1962	1969	910
35°	1647	1644	1639	1631	1635	1030
45°	1251	1242	1229	1207	1205	964
55°	849	832	811	789	783	757
65°	502	494	476	471	469	503
75°	273	266	261	273	283	291
85°	95	90	96	106	107	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2307.4	2307.4	2307.4	2307.4	2307.4
2.5°	2321.7	2309.6	2296.5	2296.5	2306.3
5°	2301.9	2301.9	2288.8	2289.9	2308.5
7.5°	2289.9	2283.3	2274.5	2274.5	2288.8
10°	2263.6	2258.1	2253.7	2251.5	2255.9
12.5°	2235.1	2226.3	2229.6	2226.3	2225.2
15°	2192.4	2188.0	2190.2	2189.1	2184.7
17.5°	2146.3	2144.2	2148.5	2140.9	2144.2
20°	2097.0	2090.5	2092.7	2088.3	2092.7
22.5°	2041.2	2036.8	2031.3	2025.8	2034.6
25°	1975.4	1970.0	1964.5	1962.3	1968.9
27.5°	1909.7	1900.9	1893.3	1891.1	1900.9
30°	1833.0	1823.1	1814.4	1812.2	1819.8
32.5°	1742.1	1739.9	1728.9	1724.5	1727.8
35°	1646.7	1644.5	1639.1	1631.4	1634.7
37.5°	1555.8	1554.7	1547.0	1533.9	1525.1
40°	1458.3	1450.6	1445.1	1426.5	1419.9
42.5°	1350.9	1348.7	1338.9	1318.0	1310.4
45°	1251.2	1242.4	1229.3	1207.4	1205.2
47.5°	1148.2	1136.2	1124.1	1096.7	1095.6
50°	1041.9	1033.2	1018.9	991.5	980.6
52.5°	943.3	931.3	911.6	885.3	879.8
55°	849.1	831.6	810.8	788.9	783.4
57.5°	748.3	740.6	715.4	697.9	691.3
60°	659.6	653.0	627.8	611.4	611.4
62.5°	579.6	569.7	547.8	536.9	536.9
65°	501.8	494.1	475.5	471.1	468.9
67.5°	435.0	425.1	412.0	410.9	416.3
70°	376.9	364.8	353.9	364.8	368.1
72.5°	322.1	314.4	304.6	318.8	325.4
75°	272.8	266.2	260.8	272.8	282.7
77.5°	227.9	221.3	221.3	234.5	243.2
80°	183.0	178.6	183.0	193.9	202.7
82.5°	140.2	137.0	142.4	153.4	158.9
85°	95.3	89.8	96.4	106.3	107.4
87.5°	44.9	43.8	48.2	54.8	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)