

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: P293007

Luminaire Tested: **24GR-LD5-56-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293007
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5890.0 lumens
Efficiency: N/A
Efficacy: 144.6 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

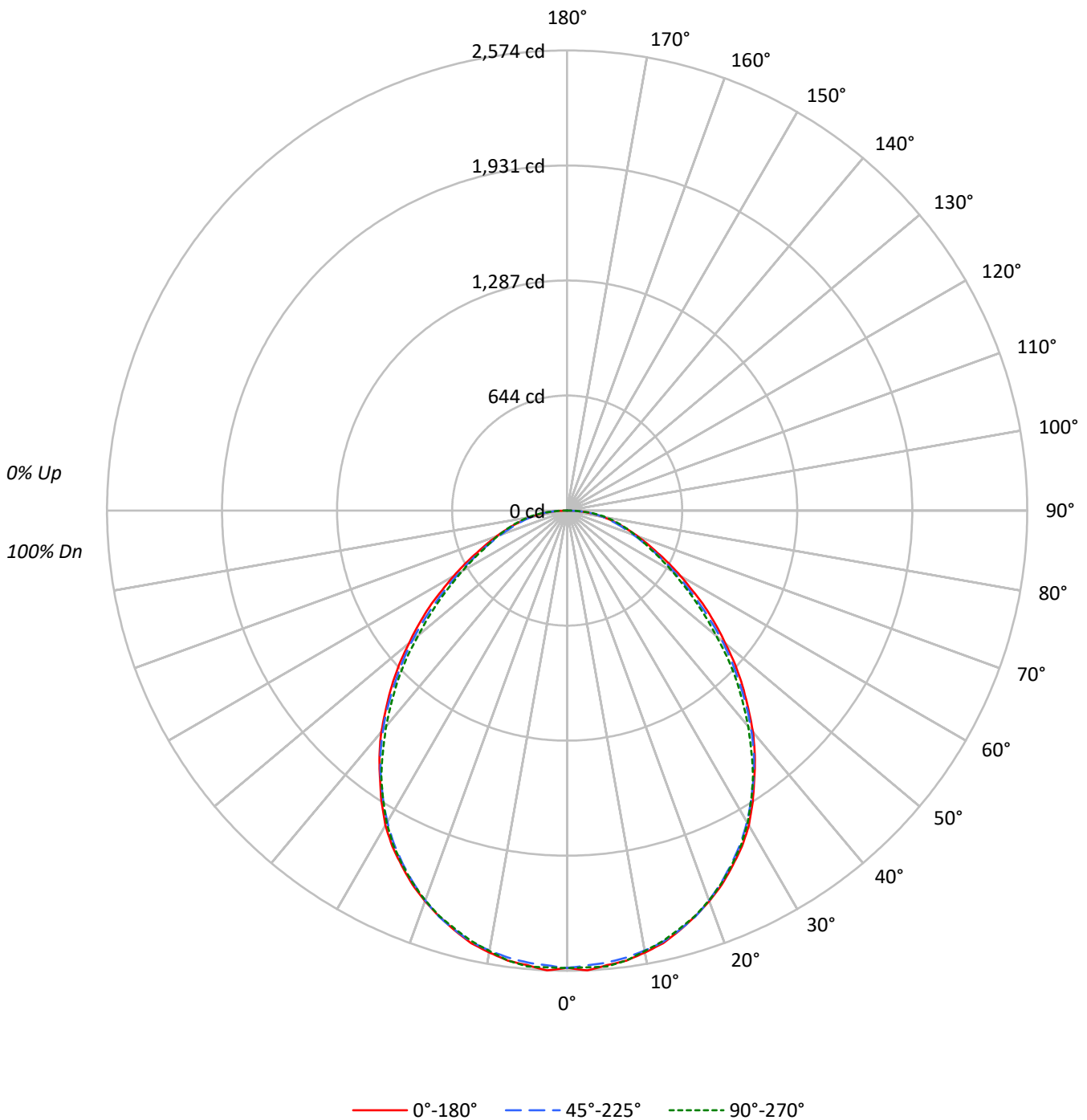
Input Watts (W): 40.734
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3442	3442	3442
5°	3447	3428	3457
10°	3429	3414	3418
15°	3386	3383	3374
20°	3329	3322	3322
25°	3252	3234	3241
30°	3158	3126	3135
35°	2999	2985	2977
40°	2840	2814	2765
45°	2640	2594	2543
50°	2418	2365	2276
55°	2209	2109	2038
60°	1968	1873	1824
65°	1771	1678	1656
70°	1644	1544	1606
75°	1573	1503	1629
80°	1572	1572	1741
85°	1632	1650	1839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	4.1
10°-20°	683.8	11.6
20°-30°	1003.5	17.0
30°-40°	1134.6	19.3
40°-50°	1048.6	17.8
50°-60°	807.9	13.7
60°-70°	535.0	9.1
70°-80°	318.5	5.4
80°-90°	116.7	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°	1928.9	32.7
0°-40°	3063.5	52.0
0°-60°	4919.9	83.5
0°-90°	5890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2558	2558	2558	2558	2558	
5°	2552	2552	2538	2539	2560	243
15°	2431	2426	2428	2427	2422	685
25°	2190	2184	2178	2176	2183	1009
35°	1826	1824	1817	1809	1813	1143
45°	1387	1378	1363	1339	1336	1069
55°	942	922	899	875	869	840
65°	556	548	527	522	520	558
75°	302	295	289	302	313	323
85°	106	100	107	118	119	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2558.5	2558.5	2558.5	2558.5	2558.5
2.5°	2574.3	2560.9	2546.3	2546.3	2557.3
5°	2552.4	2552.4	2537.8	2539.0	2559.7
7.5°	2539.0	2531.7	2522.0	2522.0	2537.8
10°	2509.9	2503.8	2498.9	2496.5	2501.4
12.5°	2478.3	2468.6	2472.2	2468.6	2467.4
15°	2430.9	2426.1	2428.5	2427.3	2422.4
17.5°	2379.9	2377.5	2382.3	2373.8	2377.5
20°	2325.2	2317.9	2320.4	2315.5	2320.4
22.5°	2263.3	2258.4	2252.3	2246.3	2256.0
25°	2190.4	2184.3	2178.2	2175.8	2183.1
27.5°	2117.5	2107.8	2099.3	2096.8	2107.8
30°	2032.4	2021.5	2011.8	2009.4	2017.9
32.5°	1931.6	1929.2	1917.0	1912.2	1915.8
35°	1825.9	1823.5	1817.4	1808.9	1812.6
37.5°	1725.1	1723.9	1715.4	1700.8	1691.1
40°	1617.0	1608.5	1602.4	1581.7	1574.4
42.5°	1497.9	1495.5	1484.5	1461.5	1453.0
45°	1387.4	1377.6	1363.1	1338.8	1336.3
47.5°	1273.2	1259.8	1246.4	1216.1	1214.9
50°	1155.3	1145.6	1129.8	1099.4	1087.3
52.5°	1046.0	1032.6	1010.8	981.6	975.5
55°	941.5	922.1	899.0	874.7	868.6
57.5°	829.7	821.2	793.3	773.9	766.6
60°	731.3	724.1	696.1	677.9	677.9
62.5°	642.7	631.7	607.4	595.3	595.3
65°	556.4	547.9	527.2	522.4	520.0
67.5°	482.3	471.4	456.8	455.6	461.6
70°	417.9	404.5	392.4	404.5	408.2
72.5°	357.2	348.7	337.7	353.5	360.8
75°	302.5	295.2	289.1	302.5	313.4
77.5°	252.7	245.4	245.4	260.0	269.7
80°	202.9	198.0	202.9	215.0	224.7
82.5°	155.5	151.9	157.9	170.1	176.2
85°	105.7	99.6	106.9	117.8	119.1
87.5°	49.8	48.6	53.5	60.7	59.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)