

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: P293144

Luminaire Tested: **24GR-LD5-72-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293144
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-LD5-72-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5891.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

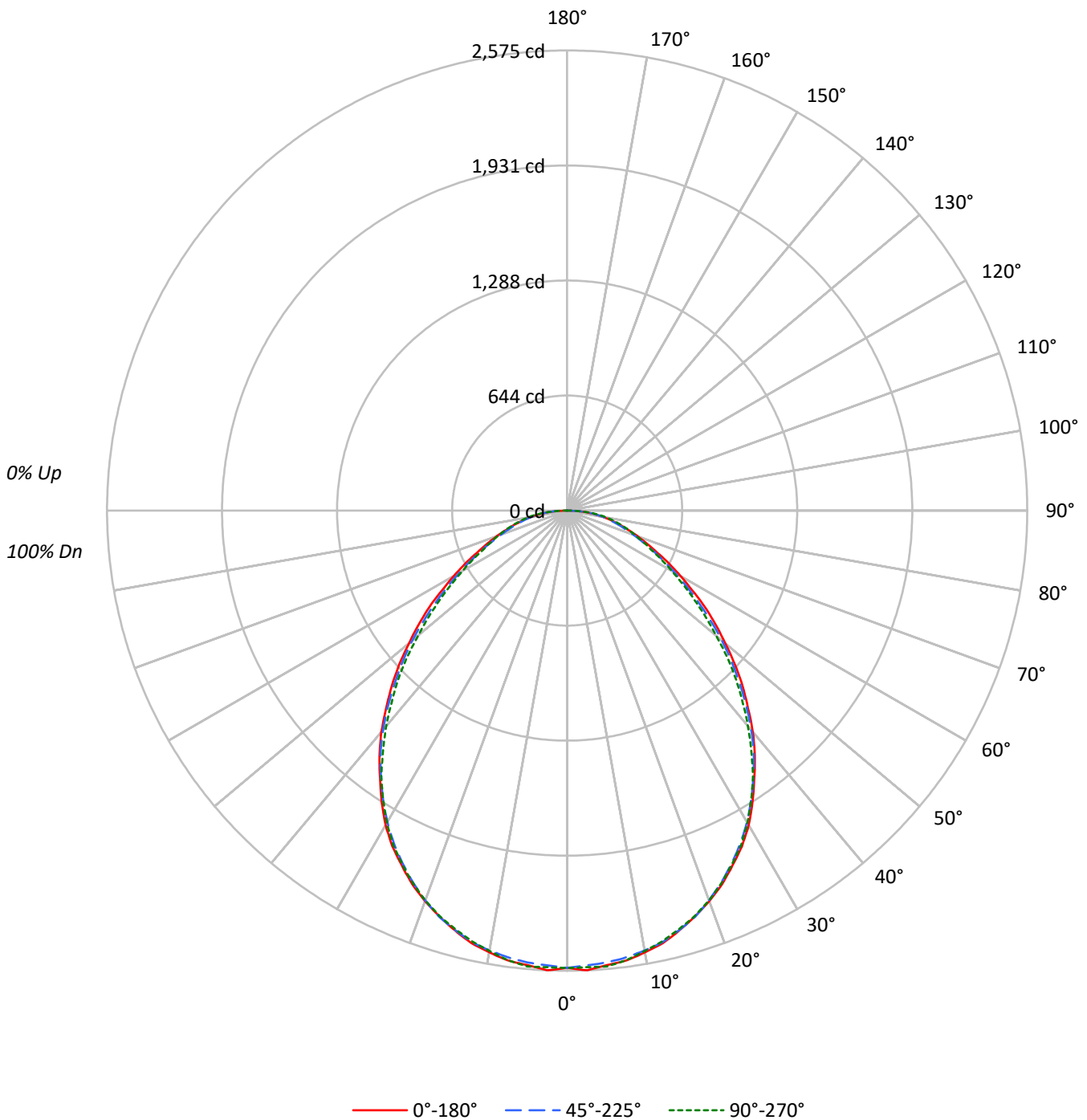
Input Watts (W): 52.08
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3443	3443	3443
5°	3448	3428	3458
10°	3430	3415	3418
15°	3387	3383	3375
20°	3330	3323	3323
25°	3252	3234	3242
30°	3158	3126	3136
35°	3000	2986	2978
40°	2840	2815	2766
45°	2640	2594	2543
50°	2419	2365	2276
55°	2209	2109	2038
60°	1968	1873	1824
65°	1772	1679	1656
70°	1644	1544	1606
75°	1573	1503	1630
80°	1572	1572	1742
85°	1632	1650	1839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	4.1
10°-20°	683.9	11.6
20°-30°	1003.7	17.0
30°-40°	1134.8	19.3
40°-50°	1048.7	17.8
50°-60°	808.0	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°	1929.2	32.7
0°-40°	3064.0	52.0
0°-60°	4920.8	83.5
0°-90°	5891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2559	2559	2559	2559	2559	
5°	2553	2553	2538	2540	2560	243
15°	2431	2426	2429	2428	2423	685
25°	2191	2185	2179	2176	2184	1009
35°	1826	1824	1818	1809	1813	1143
45°	1388	1378	1363	1339	1337	1069
55°	942	922	899	875	869	840
65°	556	548	527	522	520	558
75°	302	295	289	302	314	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°	2558.9	2558.9	2558.9	2558.9	2558.9
2.5°	2574.7	2561.3	2546.8	2546.8	2557.7
5°	2552.8	2552.8	2538.3	2539.5	2560.1
7.5°	2539.5	2532.2	2522.5	2522.5	2538.3
10°	2510.3	2504.2	2499.4	2496.9	2501.8
12.5°	2478.7	2469.0	2472.6	2469.0	2467.8
15°	2431.3	2426.5	2428.9	2427.7	2422.8
17.5°	2380.3	2377.9	2382.7	2374.2	2377.9
20°	2325.6	2318.3	2320.8	2315.9	2320.8
22.5°	2263.7	2258.8	2252.7	2246.6	2256.4
25°	2190.7	2184.7	2178.6	2176.2	2183.5
27.5°	2117.8	2108.1	2099.6	2097.2	2108.1
30°	2032.8	2021.9	2012.1	2009.7	2018.2
32.5°	1931.9	1929.5	1917.4	1912.5	1916.1
35°	1826.2	1823.8	1817.7	1809.2	1812.9
37.5°	1725.4	1724.2	1715.7	1701.1	1691.4
40°	1617.2	1608.7	1602.7	1582.0	1574.7
42.5°	1498.2	1495.7	1484.8	1461.7	1453.2
45°	1387.6	1377.9	1363.3	1339.0	1336.6
47.5°	1273.4	1260.0	1246.6	1216.3	1215.1
50°	1155.5	1145.8	1130.0	1099.6	1087.5
52.5°	1046.2	1032.8	1010.9	981.8	975.7
55°	941.7	922.2	899.1	874.8	868.8
57.5°	829.9	821.4	793.4	774.0	766.7
60°	731.5	724.2	696.2	678.0	678.0
62.5°	642.8	631.8	607.5	595.4	595.4
65°	556.5	548.0	527.3	522.5	520.0
67.5°	482.4	471.4	456.9	455.6	461.7
70°	418.0	404.6	392.5	404.6	408.3
72.5°	357.2	348.7	337.8	353.6	360.9
75°	302.5	295.3	289.2	302.5	313.5
77.5°	252.7	245.4	245.4	260.0	269.7
80°	202.9	198.1	202.9	215.1	224.8
82.5°	155.5	151.9	158.0	170.1	176.2
85°	105.7	99.6	106.9	117.9	119.1
87.5°	49.8	48.6	53.5	60.8	59.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)