

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: P293143

Luminaire Tested: **24GR-LD5-72-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293143
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5666.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

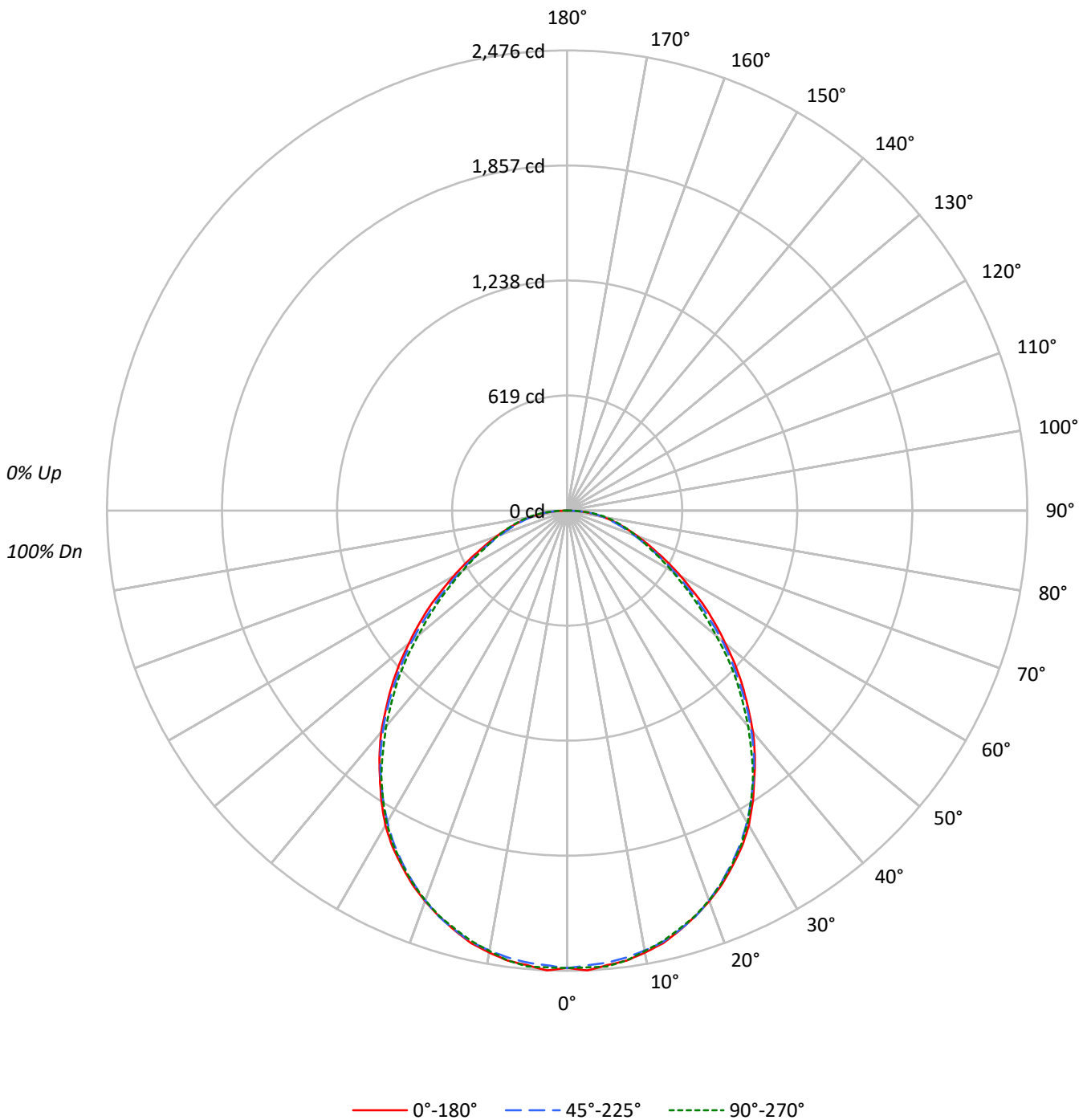
Input Watts (W): 52.452
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3312	3312	3312
5°	3316	3297	3326
10°	3299	3284	3287
15°	3257	3254	3246
20°	3203	3196	3196
25°	3128	3111	3118
30°	3038	3007	3016
35°	2885	2872	2864
40°	2732	2707	2660
45°	2539	2495	2446
50°	2326	2275	2189
55°	2125	2029	1960
60°	1893	1802	1755
65°	1704	1615	1592
70°	1581	1485	1545
75°	1513	1446	1567
80°	1512	1512	1675
85°	1570	1587	1768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	4.1
10°-20°	657.8	11.6
20°-30°	965.4	17.0
30°-40°	1091.4	19.3
40°-50°	1008.7	17.8
50°-60°	777.1	13.7
60°-70°	514.6	9.1
70°-80°	306.4	5.4
80°-90°	112.2	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°	1855.6	32.7
0°-40°	2947.0	52.0
0°-60°	4732.8	83.5
0°-90°	5666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2461	2461	2461	2461	2461	
5°	2455	2455	2441	2442	2462	233
15°	2338	2334	2336	2335	2330	659
25°	2107	2101	2095	2093	2100	970
35°	1756	1754	1748	1740	1744	1099
45°	1335	1325	1311	1288	1286	1028
55°	906	887	865	841	836	808
65°	535	527	507	502	500	537
75°	291	284	278	291	302	310
85°	102	96	103	113	114	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2461.2	2461.2	2461.2	2461.2	2461.2
2.5°	2476.4	2463.5	2449.5	2449.5	2460.0
5°	2455.3	2455.3	2441.3	2442.5	2462.3
7.5°	2442.5	2435.5	2426.1	2426.1	2441.3
10°	2414.4	2408.6	2403.9	2401.6	2406.2
12.5°	2384.0	2374.7	2378.2	2374.7	2373.5
15°	2338.5	2333.8	2336.1	2335.0	2330.3
17.5°	2289.4	2287.0	2291.7	2283.5	2287.0
20°	2236.8	2229.8	2232.1	2227.4	2232.1
22.5°	2177.2	2172.5	2166.7	2160.8	2170.2
25°	2107.1	2101.2	2095.4	2093.1	2100.1
27.5°	2037.0	2027.6	2019.4	2017.1	2027.6
30°	1955.2	1944.6	1935.3	1932.9	1941.1
32.5°	1858.2	1855.8	1844.1	1839.5	1843.0
35°	1756.5	1754.1	1748.3	1740.1	1743.6
37.5°	1659.5	1658.3	1650.1	1636.1	1626.8
40°	1555.5	1547.3	1541.4	1521.6	1514.6
42.5°	1440.9	1438.6	1428.1	1405.9	1397.7
45°	1334.6	1325.2	1311.2	1287.9	1285.5
47.5°	1224.7	1211.9	1199.0	1169.8	1168.6
50°	1111.4	1102.0	1086.8	1057.6	1045.9
52.5°	1006.2	993.4	972.3	944.3	938.4
55°	905.7	887.0	864.8	841.4	835.6
57.5°	798.2	790.0	763.1	744.4	737.4
60°	703.5	696.5	669.6	652.1	652.1
62.5°	618.2	607.7	584.3	572.6	572.6
65°	535.2	527.1	507.2	502.5	500.2
67.5°	464.0	453.4	439.4	438.2	444.1
70°	402.0	389.2	377.5	389.2	392.7
72.5°	343.6	335.4	324.9	340.1	347.1
75°	291.0	284.0	278.1	291.0	301.5
77.5°	243.1	236.1	236.1	250.1	259.4
80°	195.2	190.5	195.2	206.9	216.2
82.5°	149.6	146.1	151.9	163.6	169.5
85°	101.7	95.8	102.8	113.4	114.5
87.5°	47.9	46.7	51.4	58.4	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)