

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: P293139

Luminaire Tested: **24GR-LD5-64-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293139
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-LD5-64-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: 5915.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

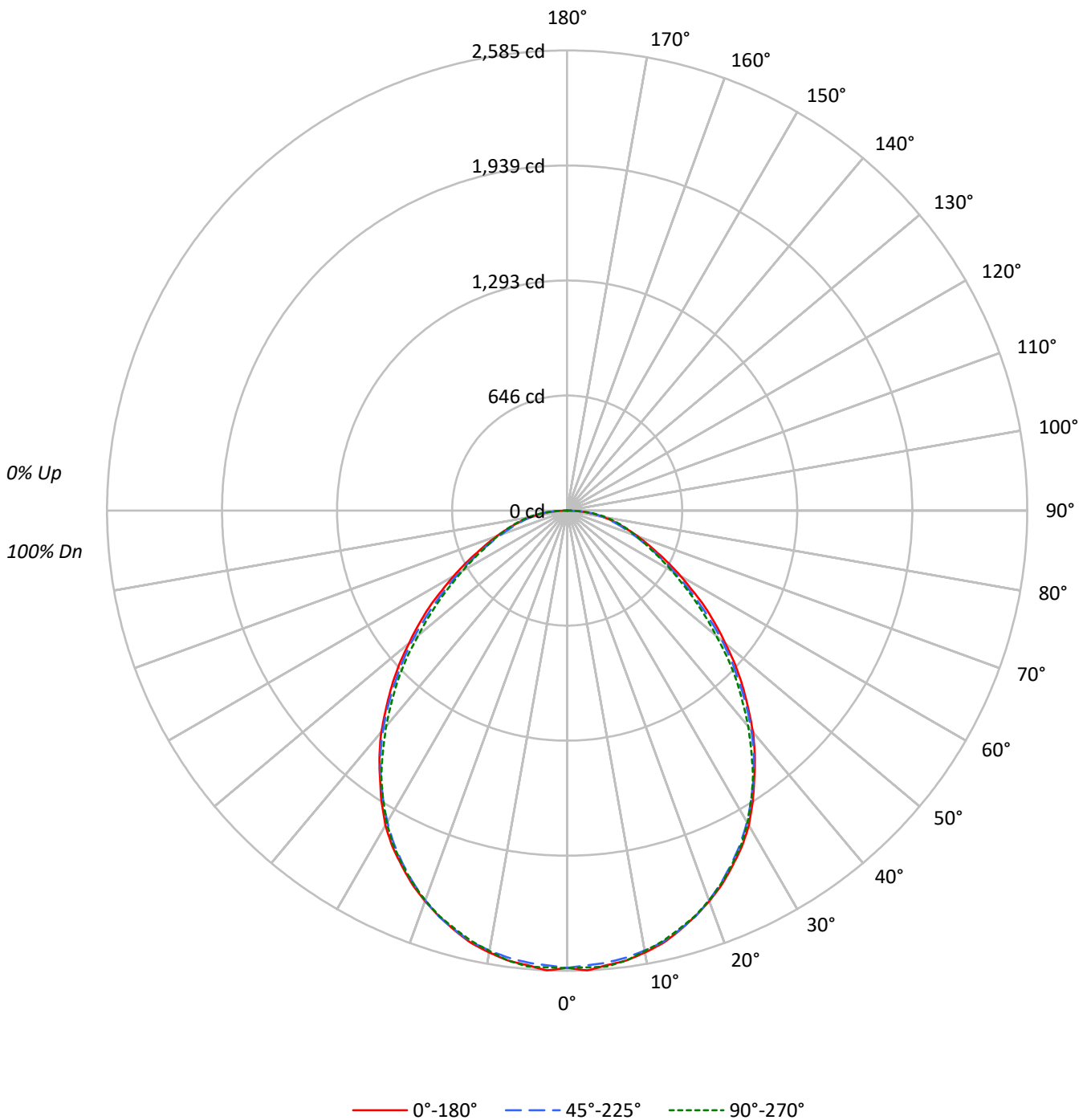
Input Watts (W): 47.058
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3457	3457	3457
5°	3462	3442	3472
10°	3444	3429	3432
15°	3400	3397	3389
20°	3343	3336	3336
25°	3266	3248	3255
30°	3171	3139	3148
35°	3012	2998	2990
40°	2852	2826	2777
45°	2651	2605	2554
50°	2429	2375	2286
55°	2218	2118	2046
60°	1976	1881	1832
65°	1779	1686	1663
70°	1651	1550	1613
75°	1579	1510	1637
80°	1578	1578	1749
85°	1638	1658	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	4.1
10°-20°	686.7	11.6
20°-30°	1007.8	17.0
30°-40°	1139.4	19.3
40°-50°	1053.0	17.8
50°-60°	811.3	13.7
60°-70°	537.2	9.1
70°-80°	319.8	5.4
80°-90°	117.2	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°	1937.1	32.7
0°-40°	3076.5	52.0
0°-60°	4940.8	83.5
0°-90°	5915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2569	2569	2569	2569	2569	
5°	2563	2563	2549	2550	2571	244
15°	2441	2436	2439	2438	2433	688
25°	2200	2194	2188	2185	2192	1013
35°	1834	1831	1825	1817	1820	1147
45°	1393	1384	1369	1344	1342	1073
55°	946	926	903	878	872	843
65°	559	550	530	525	522	560
75°	304	296	290	304	315	324
85°	106	100	107	118	120	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2569.3	2569.3	2569.3	2569.3	2569.3
2.5°	2585.2	2571.8	2557.1	2557.1	2568.1
5°	2563.2	2563.2	2548.6	2549.8	2570.6
7.5°	2549.8	2542.5	2532.7	2532.7	2548.6
10°	2520.5	2514.4	2509.6	2507.1	2512.0
12.5°	2488.8	2479.1	2482.7	2479.1	2477.8
15°	2441.2	2436.4	2438.8	2437.6	2432.7
17.5°	2390.0	2387.6	2392.4	2383.9	2387.6
20°	2335.1	2327.8	2330.2	2325.3	2330.2
22.5°	2272.9	2268.0	2261.9	2255.8	2265.6
25°	2199.7	2193.6	2187.5	2185.0	2192.4
27.5°	2126.5	2116.7	2108.2	2105.7	2116.7
30°	2041.1	2030.1	2020.3	2017.9	2026.4
32.5°	1939.8	1937.4	1925.2	1920.3	1924.0
35°	1833.7	1831.2	1825.1	1816.6	1820.3
37.5°	1732.4	1731.2	1722.7	1708.0	1698.3
40°	1623.8	1615.3	1609.2	1588.4	1581.1
42.5°	1504.3	1501.8	1490.8	1467.7	1459.1
45°	1393.2	1383.5	1368.8	1344.4	1342.0
47.5°	1278.6	1265.1	1251.7	1221.2	1220.0
50°	1160.2	1150.5	1134.6	1104.1	1091.9
52.5°	1050.4	1037.0	1015.0	985.8	979.7
55°	945.5	926.0	902.8	878.4	872.3
57.5°	833.3	824.7	796.7	777.1	769.8
60°	734.4	727.1	699.1	680.8	680.8
62.5°	645.4	634.4	610.0	597.8	597.8
65°	558.8	550.2	529.5	524.6	522.2
67.5°	484.3	473.4	458.7	457.5	463.6
70°	419.7	406.3	394.1	406.3	409.9
72.5°	358.7	350.1	339.2	355.0	362.3
75°	303.8	296.5	290.4	303.8	314.8
77.5°	253.8	246.4	246.4	261.1	270.8
80°	203.7	198.9	203.7	215.9	225.7
82.5°	156.2	152.5	158.6	170.8	176.9
85°	106.1	100.0	107.4	118.3	119.6
87.5°	50.0	48.8	53.7	61.0	59.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)