

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: P293391

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 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): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

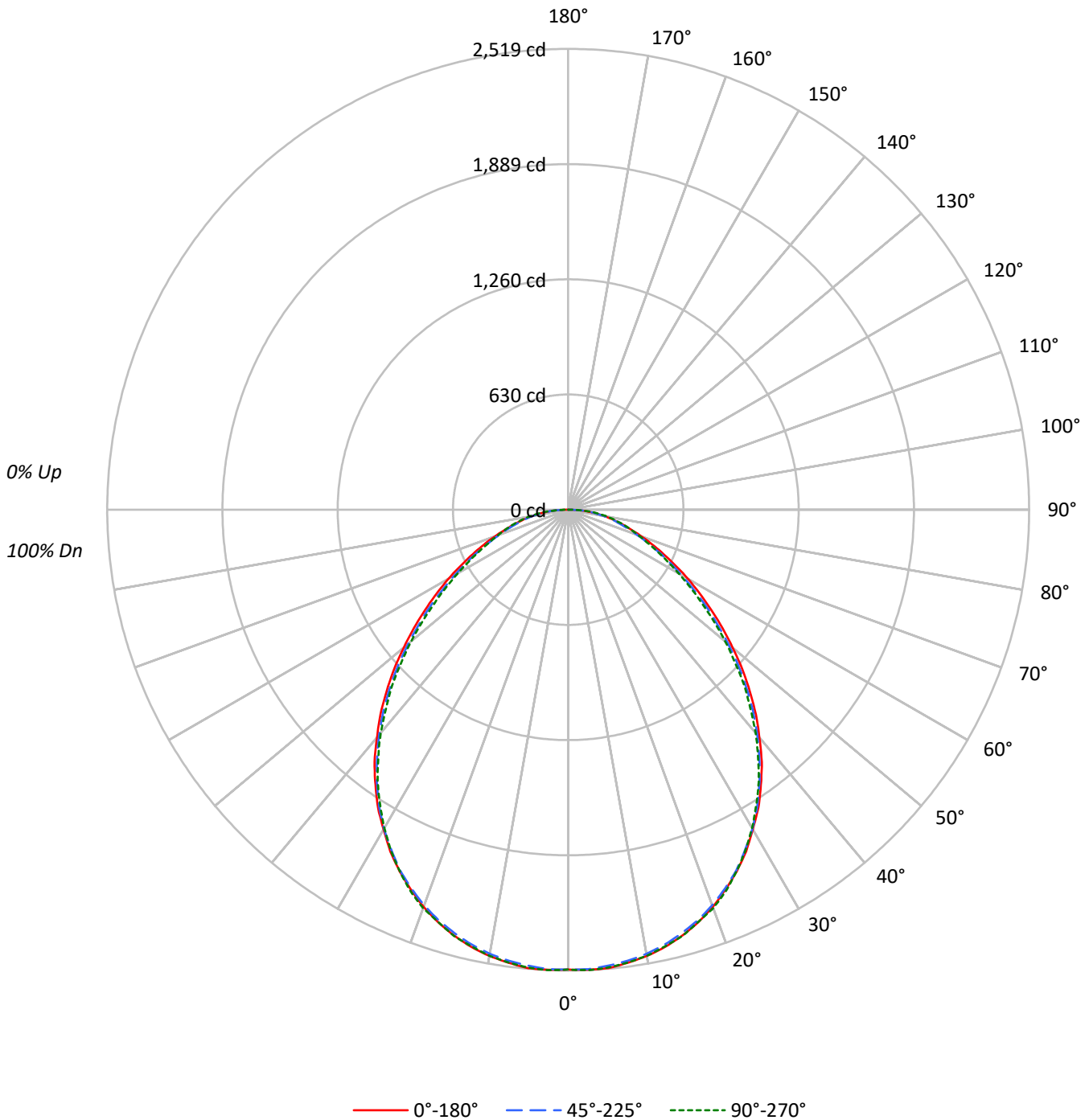
Input Watts (W): 47.058
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3382	3382	3382
5°	3398	3379	3393
10°	3384	3368	3383
15°	3357	3339	3360
20°	3308	3295	3319
25°	3237	3228	3235
30°	3134	3129	3121
35°	3016	2993	2981
40°	2855	2822	2800
45°	2671	2621	2590
50°	2454	2388	2348
55°	2238	2156	2093
60°	2033	1923	1873
65°	1831	1728	1699
70°	1677	1568	1611
75°	1567	1495	1605
80°	1554	1526	1676
85°	1584	1599	1826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	4.0
10°-20°	676.4	11.4
20°-30°	999.2	16.9
30°-40°	1136.1	19.2
40°-50°	1060.9	17.9
50°-60°	825.0	13.9
60°-70°	547.4	9.3
70°-80°	316.8	5.4
80°-90°	115.2	1.9
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°	1913.6	32.4
0°-40°	3049.6	51.6
0°-60°	4935.6	83.4
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°	2514	2514	2514	2514	2514	
5°	2516	2503	2502	2506	2512	239
15°	2410	2398	2397	2396	2412	679
25°	2180	2171	2175	2170	2179	1002
35°	1836	1827	1822	1809	1815	1146
45°	1404	1392	1378	1360	1361	1081
55°	954	940	919	895	892	856
65°	575	558	543	532	534	575
75°	301	294	288	300	309	322
85°	103	101	104	117	118	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2513.9	2513.9	2513.9	2513.9	2513.9
2.5°	2517.6	2510.2	2513.9	2511.1	2519.4
5°	2515.7	2502.8	2501.9	2506.5	2512.0
7.5°	2498.2	2484.3	2487.1	2487.1	2496.3
10°	2476.9	2463.0	2464.9	2465.8	2476.0
12.5°	2448.2	2434.4	2435.3	2434.4	2444.5
15°	2410.3	2398.3	2397.4	2396.5	2412.2
17.5°	2364.1	2347.5	2353.0	2353.9	2362.2
20°	2310.5	2297.5	2301.2	2300.3	2317.9
22.5°	2246.7	2237.4	2240.2	2238.4	2255.0
25°	2180.1	2170.9	2174.6	2169.9	2179.2
27.5°	2105.2	2098.7	2095.0	2092.3	2098.7
30°	2017.4	2013.7	2013.7	2001.7	2009.1
32.5°	1934.2	1922.2	1922.2	1917.5	1912.9
35°	1836.2	1826.9	1822.3	1809.4	1814.9
37.5°	1738.2	1716.9	1715.1	1704.9	1704.9
40°	1625.4	1613.4	1606.9	1595.8	1593.9
42.5°	1518.1	1506.1	1495.0	1476.5	1472.8
45°	1403.5	1392.4	1377.6	1360.0	1360.9
47.5°	1289.8	1274.0	1260.2	1238.9	1236.1
50°	1172.3	1161.2	1140.9	1122.4	1121.5
52.5°	1062.3	1044.8	1026.3	1004.1	1004.1
55°	954.1	940.3	919.0	895.0	892.2
57.5°	850.6	837.6	813.6	796.0	791.4
60°	755.4	736.9	714.7	699.9	696.2
62.5°	660.1	643.5	626.9	612.1	611.1
65°	575.1	557.5	542.7	532.5	533.5
67.5°	498.3	483.5	466.9	464.1	465.1
70°	426.2	410.5	398.5	405.0	409.6
72.5°	357.8	349.5	341.2	350.4	356.9
75°	301.4	294.0	287.5	300.5	308.8
77.5°	249.6	244.1	243.2	254.3	261.7
80°	200.6	194.2	196.9	209.9	216.3
82.5°	152.6	147.9	148.9	164.6	169.2
85°	102.6	100.8	103.6	117.4	118.3
87.5°	54.5	54.5	56.4	64.7	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)