

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: P293643

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5985.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

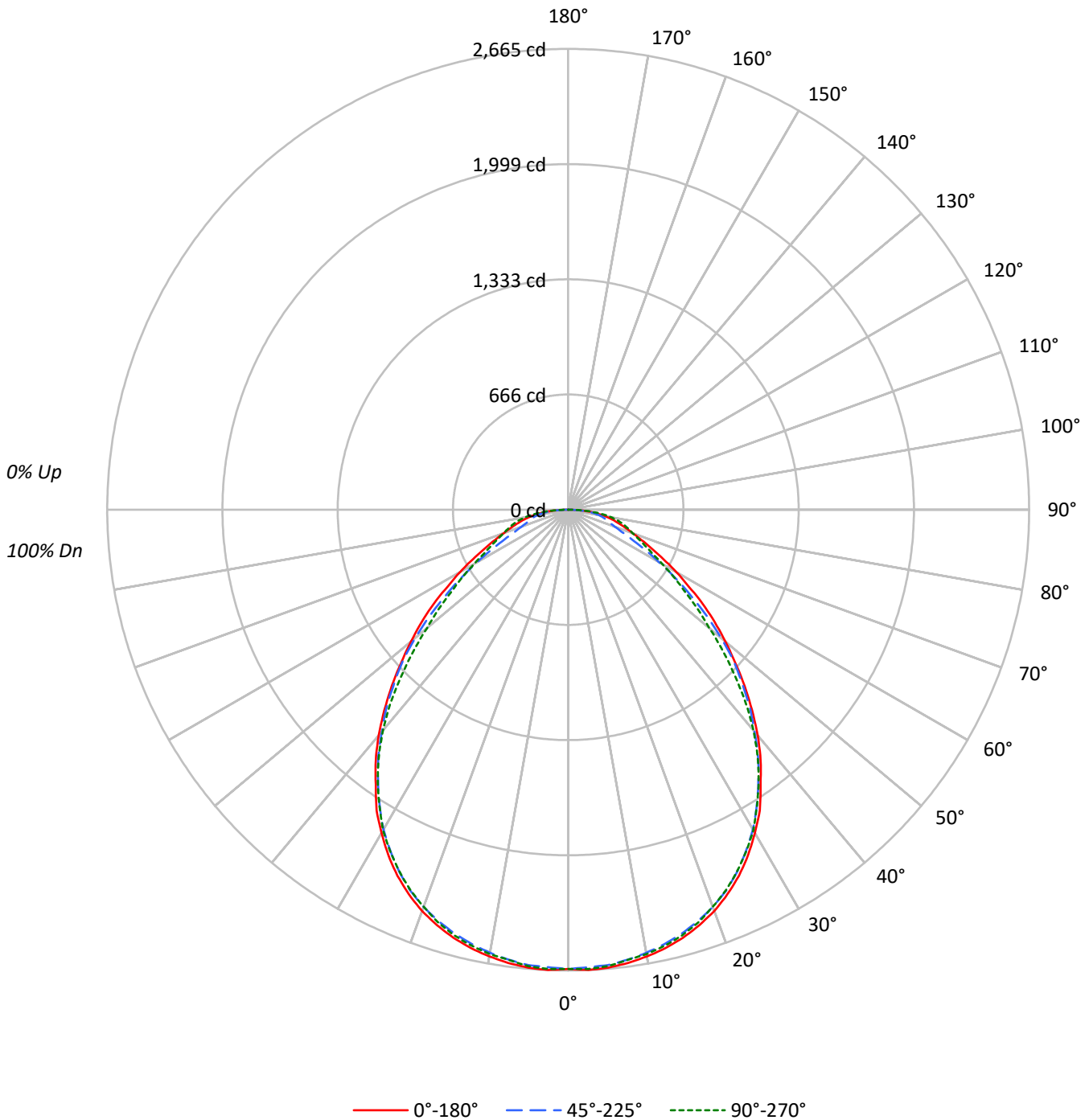
Input Watts (W): 47.058
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3573	3573	3573
5°	3590	3570	3579
10°	3584	3555	3565
15°	3570	3534	3550
20°	3536	3500	3499
25°	3467	3430	3427
30°	3353	3318	3326
35°	3185	3148	3153
40°	2995	2943	2925
45°	2745	2708	2600
50°	2481	2413	2232
55°	2228	2028	1924
60°	1951	1632	1692
65°	1701	1283	1557
70°	1557	1120	1557
75°	1557	1192	1716
80°	1691	1404	1956
85°	1856	1584	2098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	4.2
10°-20°	717.6	12.0
20°-30°	1064.1	17.8
30°-40°	1200.4	20.1
40°-50°	1087.2	18.2
50°-60°	784.4	13.1
60°-70°	468.3	7.8
70°-80°	289.5	4.8
80°-90°	121.9	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°	2033.2	34.0
0°-40°	3233.6	54.0
0°-60°	5105.3	85.3
0°-90°	5985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2656	2656	2656	2656	2656	
5°	2658	2655	2644	2641	2650	253
15°	2563	2547	2537	2538	2548	722
25°	2336	2323	2311	2302	2309	1073
35°	1939	1936	1917	1918	1920	1213
45°	1442	1433	1423	1388	1367	1112
55°	950	920	864	822	820	848
65°	534	471	403	458	489	538
75°	300	260	229	286	330	320
85°	120	105	103	134	136	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2655.5	2655.5	2655.5	2655.5	2655.5
2.5°	2664.7	2657.3	2648.1	2653.6	2658.2
5°	2658.2	2654.6	2643.5	2640.7	2649.9
7.5°	2644.4	2635.1	2625.0	2629.6	2625.9
10°	2623.1	2614.8	2601.8	2602.8	2609.2
12.5°	2597.2	2587.1	2573.2	2576.9	2582.4
15°	2563.0	2547.3	2537.1	2538.0	2548.2
17.5°	2519.6	2507.5	2494.6	2497.4	2502.0
20°	2469.6	2463.2	2444.7	2439.1	2443.7
22.5°	2406.8	2394.7	2384.6	2381.8	2382.7
25°	2335.6	2322.6	2310.6	2302.3	2308.7
27.5°	2252.3	2241.3	2225.5	2222.8	2228.3
30°	2158.0	2149.7	2135.8	2132.1	2140.5
32.5°	2061.9	2048.0	2028.6	2028.6	2030.4
35°	1938.9	1936.1	1916.7	1917.6	1919.5
37.5°	1828.0	1815.0	1803.9	1792.8	1798.4
40°	1705.0	1690.2	1675.4	1668.0	1665.2
42.5°	1572.8	1561.7	1555.2	1528.4	1521.9
45°	1442.4	1433.1	1423.0	1387.8	1366.6
47.5°	1309.2	1307.4	1299.1	1237.1	1215.9
50°	1185.3	1182.6	1153.0	1087.3	1066.1
52.5°	1067.9	1049.4	1010.6	945.9	942.2
55°	949.6	920.0	864.5	822.0	820.1
57.5°	824.8	789.6	733.2	710.1	722.1
60°	724.9	671.3	606.5	609.3	628.7
62.5°	621.3	561.2	497.4	525.2	548.3
65°	534.4	470.6	403.1	457.7	489.1
67.5°	458.6	399.4	334.7	407.8	438.3
70°	395.7	347.7	284.8	361.5	395.7
72.5°	345.8	301.4	252.4	324.5	364.3
75°	299.6	259.8	229.3	285.7	330.1
77.5°	259.8	221.0	207.1	252.4	295.9
80°	218.2	183.1	181.2	220.1	252.4
82.5°	170.1	146.1	146.1	184.0	203.4
85°	120.2	105.4	102.6	134.1	135.9
87.5°	61.9	59.2	53.6	70.3	70.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)