

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: P293644

Luminaire Tested: **24GR-LD5-64-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293644
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6077.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

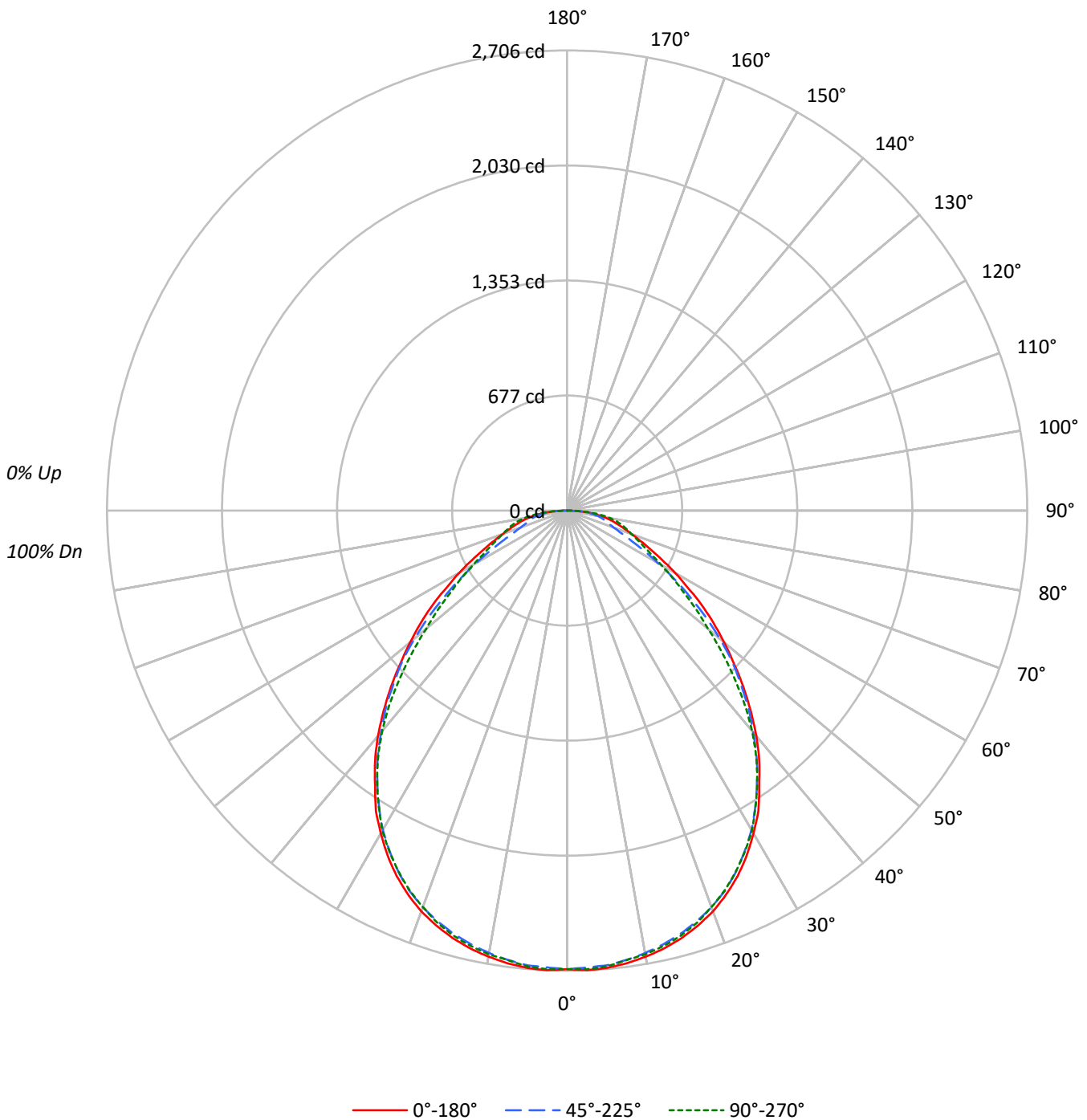
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3628	3628	3628
5°	3645	3625	3634
10°	3639	3609	3620
15°	3625	3588	3604
20°	3590	3554	3553
25°	3521	3483	3480
30°	3404	3369	3377
35°	3234	3197	3201
40°	3041	2988	2970
45°	2787	2749	2640
50°	2519	2451	2266
55°	2262	2059	1953
60°	1981	1657	1718
65°	1727	1303	1581
70°	1581	1138	1581
75°	1581	1210	1743
80°	1717	1426	1986
85°	1883	1609	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	4.2
10°-20°	728.7	12.0
20°-30°	1080.5	17.8
30°-40°	1218.9	20.1
40°-50°	1104.0	18.2
50°-60°	796.4	13.1
60°-70°	475.6	7.8
70°-80°	293.9	4.8
80°-90°	123.8	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°	2064.5	34.0
0°-40°	3283.3	54.0
0°-60°	5183.7	85.3
0°-90°	6077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2696	2696	2696	2696	2696	
5°	2699	2695	2684	2681	2691	256
15°	2602	2586	2576	2577	2587	734
25°	2372	2358	2346	2338	2344	1089
35°	1969	1966	1946	1947	1949	1232
45°	1465	1455	1445	1409	1388	1129
55°	964	934	878	835	833	861
65°	543	478	409	465	497	546
75°	304	264	233	290	335	325
85°	122	107	104	136	138	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2696.3	2696.3	2696.3	2696.3	2696.3
2.5°	2705.7	2698.2	2688.8	2694.4	2699.1
5°	2699.1	2695.4	2684.1	2681.3	2690.7
7.5°	2685.0	2675.6	2665.3	2670.0	2666.3
10°	2663.4	2655.0	2641.8	2642.8	2649.4
12.5°	2637.1	2626.8	2612.7	2616.5	2622.1
15°	2602.4	2586.5	2576.1	2577.1	2587.4
17.5°	2558.3	2546.1	2532.9	2535.8	2540.5
20°	2507.6	2501.0	2482.2	2476.6	2481.3
22.5°	2443.8	2431.5	2421.2	2418.4	2419.3
25°	2371.5	2358.3	2346.1	2337.7	2344.2
27.5°	2287.0	2275.7	2259.7	2256.9	2262.6
30°	2191.2	2182.8	2168.7	2164.9	2173.4
32.5°	2093.6	2079.5	2059.8	2059.8	2061.7
35°	1968.7	1965.9	1946.2	1947.1	1949.0
37.5°	1856.0	1842.9	1831.6	1820.4	1826.0
40°	1731.2	1716.2	1701.1	1693.6	1690.8
42.5°	1596.9	1585.7	1579.1	1551.9	1545.3
45°	1464.6	1455.2	1444.8	1409.2	1387.6
47.5°	1329.4	1327.5	1319.0	1256.1	1234.5
50°	1203.6	1200.8	1170.7	1104.1	1082.5
52.5°	1084.3	1065.6	1026.1	960.4	956.7
55°	964.2	934.1	877.8	834.6	832.7
57.5°	837.4	801.8	744.5	721.0	733.2
60°	736.0	681.6	615.9	618.7	638.4
62.5°	630.9	569.9	505.1	533.3	556.7
65°	542.6	477.9	409.3	464.7	496.6
67.5°	465.7	405.6	339.9	414.0	445.0
70°	401.8	353.0	289.2	367.1	401.8
72.5°	351.1	306.1	256.3	329.5	369.9
75°	304.2	263.8	232.8	290.1	335.2
77.5°	263.8	224.4	210.3	256.3	300.4
80°	221.6	185.9	184.0	223.4	256.3
82.5°	172.7	148.3	148.3	186.8	206.5
85°	122.0	107.0	104.2	136.1	138.0
87.5°	62.9	60.1	54.5	71.4	71.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)