

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: P293772

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6701.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

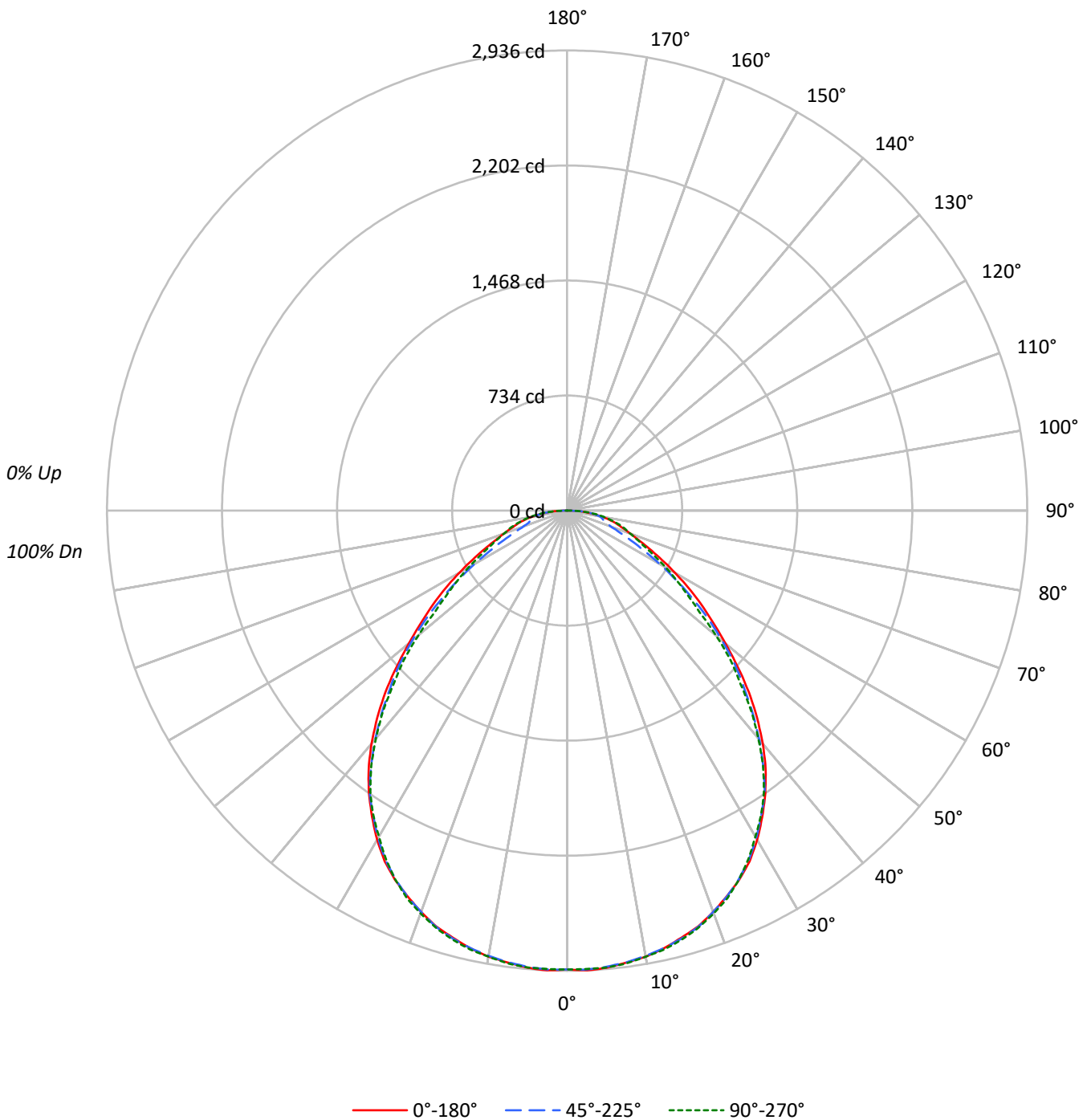
Input Watts (W): 47.988
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	3940	3940	3940
5°	3953	3945	3952
10°	3948	3942	3949
15°	3929	3936	3946
20°	3902	3902	3917
25°	3858	3850	3854
30°	3768	3748	3731
35°	3620	3609	3596
40°	3410	3347	3333
45°	3119	3033	2978
50°	2757	2702	2597
55°	2452	2286	2197
60°	2135	1829	1961
65°	1844	1418	1734
70°	1682	1160	1678
75°	1696	1250	1783
80°	1766	1628	1879
85°	1840	1936	2083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	4.1
10°-20°	796.6	11.9
20°-30°	1192.4	17.8
30°-40°	1362.5	20.3
40°-50°	1231.9	18.4
50°-60°	886.3	13.2
60°-70°	513.8	7.7
70°-80°	304.8	4.5
80°-90°	135.0	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°	2266.8	33.8
0°-40°	3629.3	54.2
0°-60°	5747.4	85.8
0°-90°	6701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2928	2928	2928	2928	2928	
5°	2927	2923	2921	2917	2926	278
15°	2820	2826	2826	2822	2833	796
25°	2599	2596	2594	2588	2596	1195
35°	2204	2193	2197	2170	2189	1374
45°	1639	1611	1594	1580	1565	1259
55°	1045	1026	974	949	937	935
65°	579	514	445	498	545	585
75°	326	273	240	297	343	345
85°	119	129	125	144	135	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2928.1	2928.1	2928.1	2928.1	2928.1
2.5°	2936.5	2926.0	2931.2	2928.1	2927.1
5°	2927.1	2922.9	2920.8	2916.6	2926.0
7.5°	2908.2	2905.1	2906.2	2907.2	2913.5
10°	2889.4	2884.2	2885.2	2887.3	2890.5
12.5°	2860.2	2857.0	2858.1	2860.2	2867.5
15°	2820.4	2825.7	2825.7	2822.5	2833.0
17.5°	2780.7	2779.7	2784.9	2775.5	2790.1
20°	2725.3	2726.3	2725.3	2726.3	2735.8
22.5°	2662.6	2667.8	2664.7	2664.7	2675.1
25°	2598.8	2595.7	2593.6	2588.4	2595.7
27.5°	2522.5	2516.2	2511.0	2500.5	2505.8
30°	2425.3	2426.3	2412.7	2403.3	2401.2
32.5°	2316.6	2316.6	2304.0	2296.7	2303.0
35°	2203.7	2193.2	2197.4	2170.2	2189.0
37.5°	2081.3	2064.6	2055.2	2045.8	2052.1
40°	1941.3	1919.3	1905.7	1886.9	1897.4
42.5°	1793.9	1766.7	1750.0	1736.4	1740.6
45°	1639.2	1610.9	1594.2	1579.6	1564.9
47.5°	1476.1	1458.3	1449.9	1431.1	1414.4
50°	1317.2	1310.9	1291.0	1275.4	1240.9
52.5°	1171.9	1166.6	1135.3	1109.1	1065.2
55°	1045.4	1025.5	974.3	949.2	936.7
57.5°	916.8	884.4	822.7	819.6	827.9
60°	793.4	753.7	679.5	696.2	728.6
62.5°	681.6	622.0	550.9	590.6	629.3
65°	579.1	514.3	445.3	497.6	544.6
67.5°	494.5	429.7	358.6	428.6	483.0
70°	427.6	361.7	294.8	375.3	426.5
72.5°	372.2	312.6	257.2	333.5	386.8
75°	326.2	272.8	240.4	296.9	342.9
77.5°	280.2	237.3	230.0	264.5	292.7
80°	227.9	208.0	210.1	232.1	242.5
82.5°	170.4	171.4	176.7	194.4	190.3
85°	119.2	128.6	125.4	144.3	134.9
87.5°	65.9	72.1	67.9	82.6	74.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)