

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: P293770

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293770
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6666.0 lumens
Efficiency: N/A
Efficacy: 141.1 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

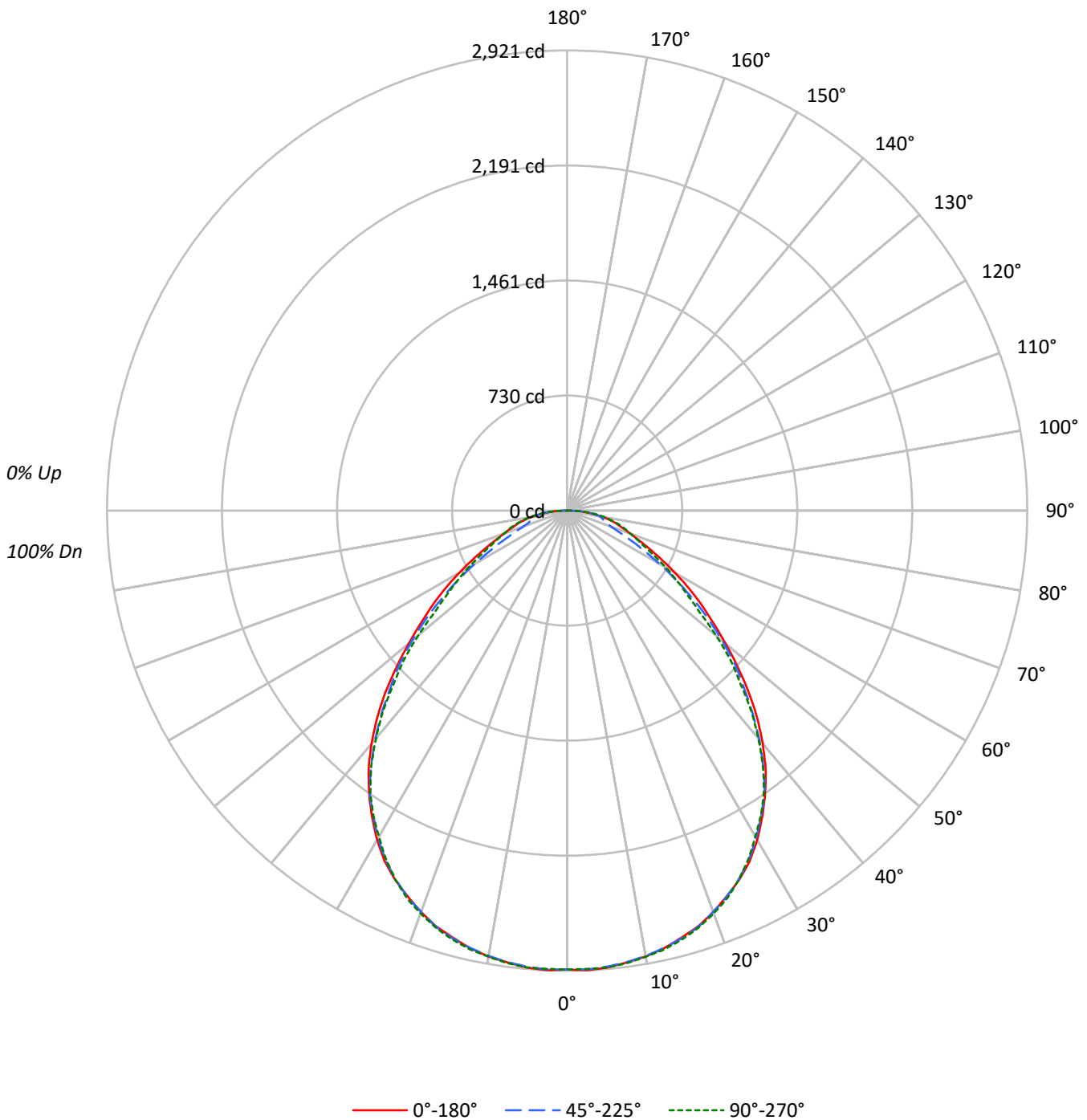
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3919	3919	3919
5°	3933	3924	3931
10°	3927	3921	3929
15°	3908	3915	3926
20°	3882	3882	3897
25°	3838	3830	3833
30°	3748	3729	3711
35°	3601	3590	3577
40°	3392	3330	3315
45°	3103	3018	2962
50°	2743	2688	2584
55°	2439	2274	2186
60°	2124	1819	1950
65°	1834	1410	1725
70°	1673	1154	1669
75°	1687	1243	1773
80°	1757	1619	1870
85°	1831	1927	2070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	4.1
10°-20°	792.4	11.9
20°-30°	1186.2	17.8
30°-40°	1355.4	20.3
40°-50°	1225.4	18.4
50°-60°	881.6	13.2
60°-70°	511.1	7.7
70°-80°	303.2	4.5
80°-90°	134.3	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°	2254.9	33.8
0°-40°	3610.4	54.2
0°-60°	5717.4	85.8
0°-90°	6666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2913	2913	2913	2913	2913	
5°	2912	2908	2906	2901	2911	277
15°	2806	2811	2811	2808	2818	792
25°	2585	2582	2580	2575	2582	1189
35°	2192	2182	2186	2159	2178	1367
45°	1631	1602	1586	1571	1557	1253
55°	1040	1020	969	944	932	930
65°	576	512	443	495	542	582
75°	324	271	239	295	341	343
85°	119	128	125	144	134	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2912.8	2912.8	2912.8	2912.8	2912.8
2.5°	2921.1	2910.7	2915.9	2912.8	2911.8
5°	2911.8	2907.6	2905.5	2901.4	2910.7
7.5°	2893.1	2889.9	2891.0	2892.0	2898.3
10°	2874.3	2869.1	2870.2	2872.3	2875.4
12.5°	2845.2	2842.1	2843.1	2845.2	2852.5
15°	2805.7	2810.9	2810.9	2807.8	2818.2
17.5°	2766.2	2765.1	2770.3	2761.0	2775.5
20°	2711.1	2712.1	2711.1	2712.1	2721.5
22.5°	2648.7	2653.9	2650.8	2650.8	2661.2
25°	2585.2	2582.1	2580.0	2574.8	2582.1
27.5°	2509.3	2503.1	2497.9	2487.5	2492.7
30°	2412.6	2413.6	2400.1	2390.8	2388.7
32.5°	2304.5	2304.5	2292.0	2284.7	2290.9
35°	2192.1	2181.7	2185.9	2158.9	2177.6
37.5°	2070.5	2053.8	2044.5	2035.1	2041.4
40°	1931.1	1909.3	1895.8	1877.1	1887.5
42.5°	1784.5	1757.5	1740.8	1727.3	1731.5
45°	1630.6	1602.5	1585.9	1571.3	1556.8
47.5°	1468.4	1450.7	1442.4	1423.6	1407.0
50°	1310.3	1304.1	1284.3	1268.7	1234.4
52.5°	1165.7	1160.5	1129.4	1103.4	1059.7
55°	1039.9	1020.2	969.2	944.2	931.8
57.5°	912.0	879.8	818.4	815.3	823.6
60°	789.3	749.8	675.9	692.6	724.8
62.5°	678.0	618.8	548.0	587.6	626.0
65°	576.1	511.6	443.0	495.0	541.8
67.5°	491.9	427.4	356.7	426.4	480.4
70°	425.3	359.8	293.3	373.3	424.3
72.5°	370.2	310.9	255.8	331.7	384.8
75°	324.5	271.4	239.2	295.3	341.1
77.5°	278.7	236.1	228.8	263.1	291.2
80°	226.7	206.9	209.0	230.9	241.3
82.5°	169.5	170.5	175.7	193.4	189.3
85°	118.6	127.9	124.8	143.5	134.1
87.5°	65.5	71.8	67.6	82.2	73.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)