

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: P293886

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293886
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-LD5-56-A125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5219.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

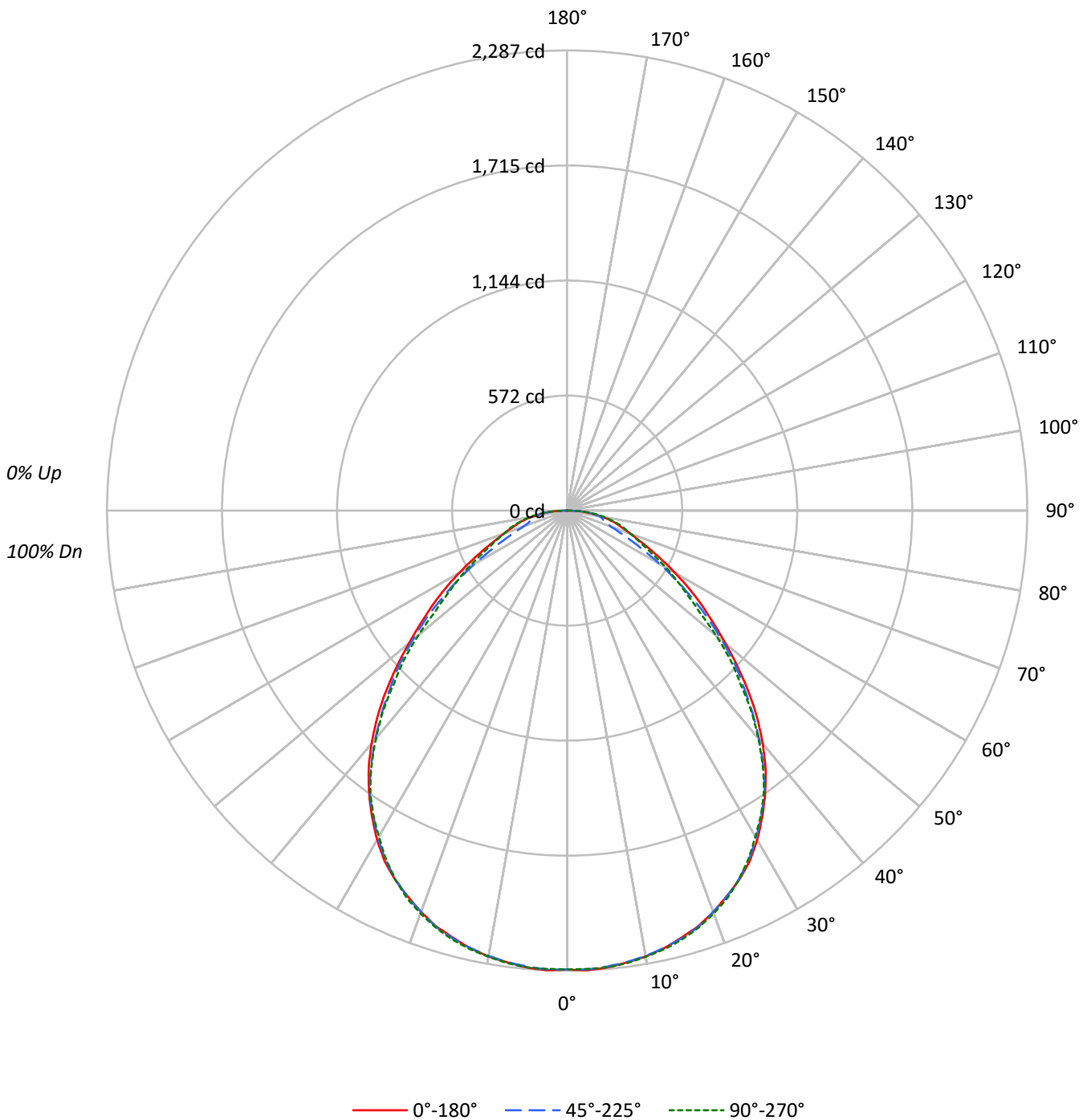
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3068	3068	3068
5°	3079	3072	3078
10°	3075	3070	3076
15°	3060	3065	3073
20°	3039	3039	3051
25°	3005	2999	3001
30°	2935	2919	2906
35°	2819	2811	2800
40°	2656	2607	2595
45°	2429	2363	2319
50°	2147	2105	2023
55°	1910	1780	1711
60°	1663	1424	1527
65°	1436	1104	1351
70°	1310	903	1307
75°	1320	974	1389
80°	1375	1268	1464
85°	1433	1508	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	4.1
10°-20°	620.4	11.9
20°-30°	928.7	17.8
30°-40°	1061.2	20.3
40°-50°	959.4	18.4
50°-60°	690.2	13.2
60°-70°	400.2	7.7
70°-80°	237.4	4.5
80°-90°	105.1	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°	1765.5	33.8
0°-40°	2826.7	54.2
0°-60°	4476.3	85.8
0°-90°	5219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2280	2276	2275	2272	2279	217
15°	2197	2201	2201	2198	2206	620
25°	2024	2022	2020	2016	2022	931
35°	1716	1708	1711	1690	1705	1070
45°	1277	1255	1242	1230	1219	981
55°	814	799	759	739	730	728
65°	451	401	347	388	424	455
75°	254	212	187	231	267	268
85°	93	100	98	112	105	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280.5	2280.5	2280.5	2280.5	2280.5
2.5°	2287.0	2278.9	2283.0	2280.5	2279.7
5°	2279.7	2276.5	2274.8	2271.6	2278.9
7.5°	2265.1	2262.6	2263.4	2264.2	2269.1
10°	2250.4	2246.3	2247.1	2248.8	2251.2
12.5°	2227.6	2225.2	2226.0	2227.6	2233.3
15°	2196.7	2200.7	2200.7	2198.3	2206.4
17.5°	2165.7	2164.9	2169.0	2161.7	2173.0
20°	2122.6	2123.4	2122.6	2123.4	2130.7
22.5°	2073.7	2077.8	2075.3	2075.3	2083.5
25°	2024.1	2021.6	2020.0	2015.9	2021.6
27.5°	1964.6	1959.7	1955.7	1947.5	1951.6
30°	1888.9	1889.7	1879.1	1871.8	1870.2
32.5°	1804.2	1804.2	1794.5	1788.8	1793.6
35°	1716.3	1708.2	1711.4	1690.2	1704.9
37.5°	1621.0	1608.0	1600.7	1593.4	1598.2
40°	1511.9	1494.8	1484.3	1469.6	1477.7
42.5°	1397.1	1376.0	1362.9	1352.4	1355.6
45°	1276.6	1254.7	1241.6	1230.2	1218.8
47.5°	1149.6	1135.8	1129.3	1114.6	1101.6
50°	1025.9	1021.0	1005.5	993.3	966.4
52.5°	912.7	908.6	884.2	863.8	829.7
55°	814.2	798.7	758.8	739.3	729.5
57.5°	714.0	688.8	640.8	638.3	644.8
60°	618.0	587.0	529.2	542.2	567.5
62.5°	530.8	484.4	429.1	460.0	490.1
65°	451.1	400.6	346.8	387.6	424.2
67.5°	385.1	334.6	279.3	333.8	376.2
70°	333.0	281.7	229.6	292.3	332.2
72.5°	289.8	243.4	200.3	259.7	301.2
75°	254.0	212.5	187.3	231.2	267.1
77.5°	218.2	184.8	179.1	206.0	228.0
80°	177.5	162.0	163.7	180.7	188.9
82.5°	132.7	133.5	137.6	151.4	148.2
85°	92.8	100.1	97.7	112.4	105.0
87.5°	51.3	56.2	52.9	64.3	57.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)