

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: P293821

Luminaire Tested: **24GR-LD5-64-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293821
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-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4987.0 lumens
Efficiency: N/A
Efficacy: 106.1 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

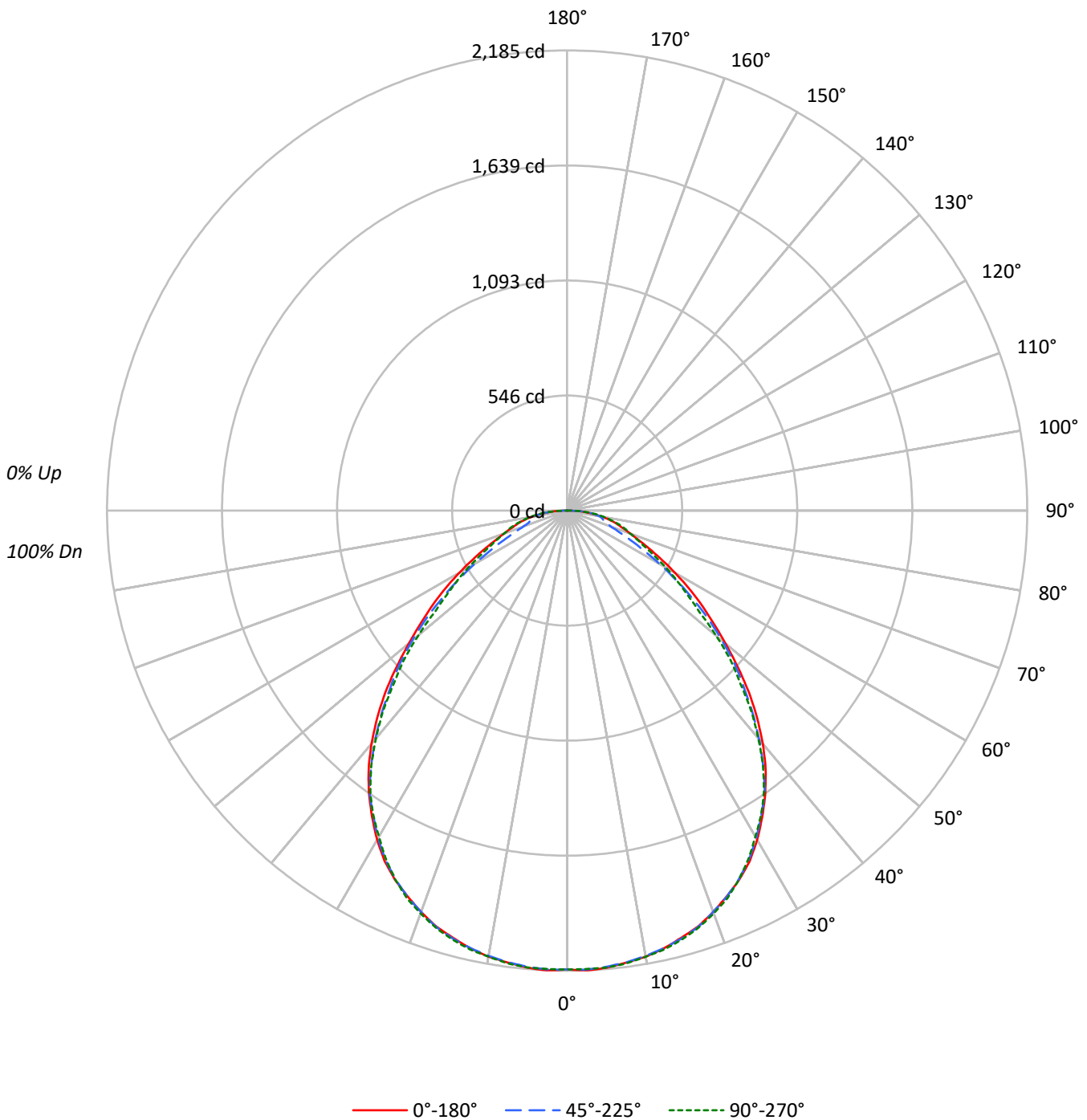
Input Watts (W): 46.998666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2932	2932	2932
5°	2942	2936	2941
10°	2938	2934	2939
15°	2924	2929	2937
20°	2904	2904	2915
25°	2871	2866	2868
30°	2804	2790	2776
35°	2694	2686	2676
40°	2537	2491	2480
45°	2321	2257	2216
50°	2052	2011	1933
55°	1825	1701	1635
60°	1589	1361	1459
65°	1372	1055	1290
70°	1252	863	1249
75°	1262	930	1327
80°	1314	1212	1399
85°	1369	1442	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	4.1
10°-20°	592.8	11.9
20°-30°	887.4	17.8
30°-40°	1014.0	20.3
40°-50°	916.8	18.4
50°-60°	659.6	13.2
60°-70°	382.4	7.7
70°-80°	226.8	4.5
80°-90°	100.5	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°	1687.0	33.8
0°-40°	2701.0	54.2
0°-60°	4277.3	85.8
0°-90°	4987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2178	2175	2174	2171	2178	207
15°	2099	2103	2103	2101	2108	593
25°	1934	1932	1930	1926	1932	889
35°	1640	1632	1635	1615	1629	1022
45°	1220	1199	1186	1176	1165	937
55°	778	763	725	706	697	696
65°	431	383	331	370	405	435
75°	243	203	179	221	255	257
85°	89	96	93	107	100	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2179.1	2179.1	2179.1	2179.1	2179.1
2.5°	2185.4	2177.6	2181.5	2179.1	2178.4
5°	2178.4	2175.3	2173.7	2170.6	2177.6
7.5°	2164.4	2162.0	2162.8	2163.6	2168.3
10°	2150.4	2146.5	2147.2	2148.8	2151.1
12.5°	2128.6	2126.2	2127.0	2128.6	2134.0
15°	2099.0	2102.9	2102.9	2100.6	2108.3
17.5°	2069.4	2068.7	2072.6	2065.6	2076.5
20°	2028.2	2029.0	2028.2	2029.0	2036.0
22.5°	1981.5	1985.4	1983.1	1983.1	1990.9
25°	1934.1	1931.7	1930.2	1926.3	1931.7
27.5°	1877.3	1872.6	1868.7	1860.9	1864.8
30°	1804.9	1805.7	1795.6	1788.6	1787.0
32.5°	1724.0	1724.0	1714.7	1709.2	1713.9
35°	1640.0	1632.2	1635.3	1615.1	1629.1
37.5°	1549.0	1536.5	1529.5	1522.5	1527.2
40°	1444.7	1428.4	1418.3	1404.3	1412.0
42.5°	1335.0	1314.8	1302.4	1292.2	1295.4
45°	1219.9	1198.9	1186.4	1175.5	1164.6
47.5°	1098.5	1085.3	1079.1	1065.1	1052.6
50°	980.3	975.6	960.8	949.1	923.5
52.5°	872.1	868.2	844.9	825.4	792.8
55°	778.0	763.2	725.1	706.4	697.1
57.5°	682.3	658.2	612.3	609.9	616.2
60°	590.5	560.9	505.7	518.1	542.3
62.5°	507.2	462.9	410.0	439.6	468.3
65°	431.0	382.8	331.4	370.3	405.3
67.5°	368.0	319.8	266.9	319.0	359.4
70°	318.2	269.2	219.4	279.3	317.4
72.5°	277.0	232.6	191.4	248.2	287.9
75°	242.7	203.1	178.9	220.9	255.2
77.5°	208.5	176.6	171.2	196.8	217.8
80°	169.6	154.8	156.4	172.7	180.5
82.5°	126.8	127.6	131.5	144.7	141.6
85°	88.7	95.7	93.4	107.4	100.4
87.5°	49.0	53.7	50.6	61.5	55.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)