

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: P293751

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293751
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-LD5-48-A125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002.0 lumens
Efficiency: N/A
Efficacy: 149.0 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

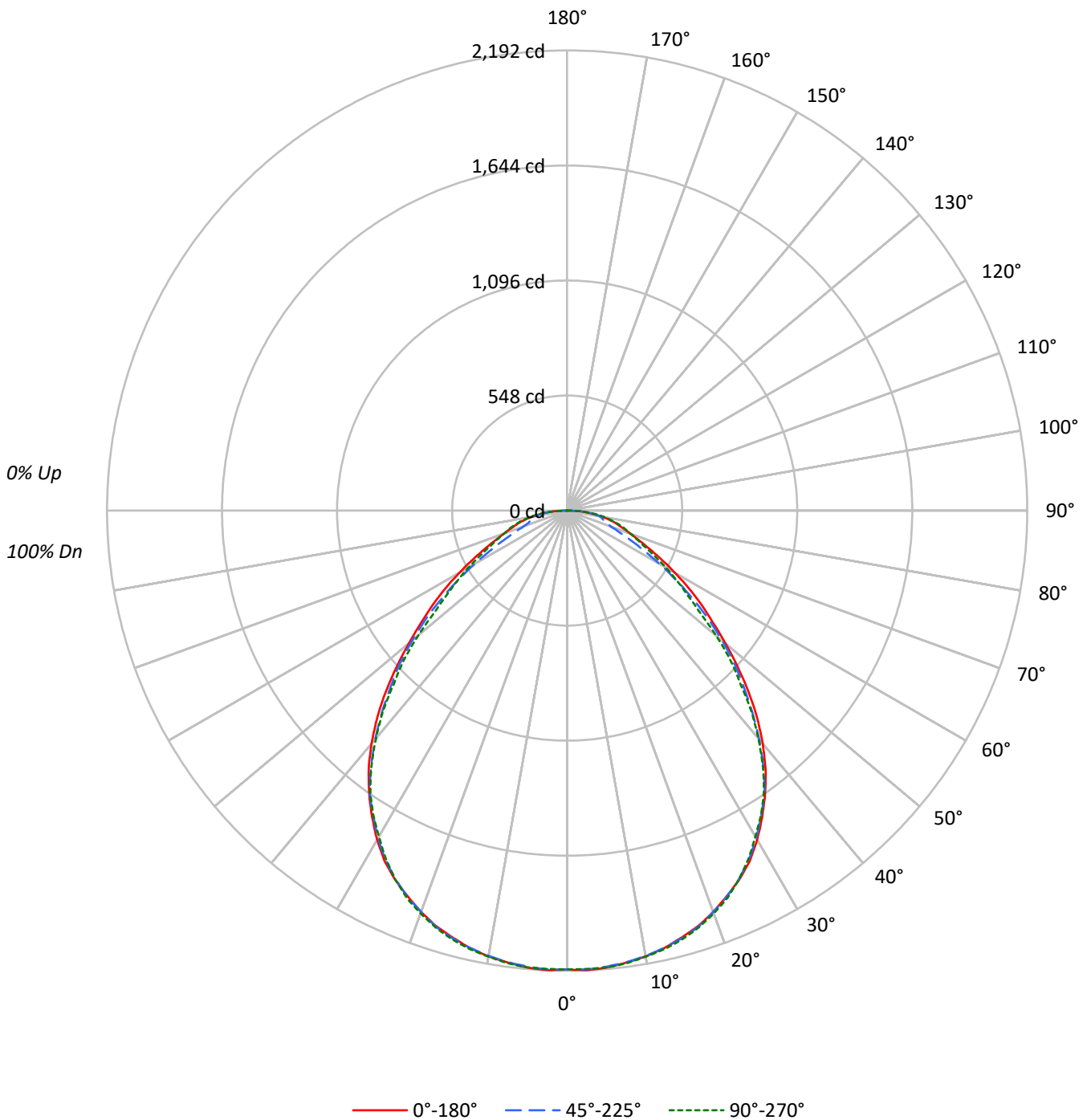
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2941	2941	2941
5°	2951	2945	2950
10°	2947	2942	2948
15°	2933	2938	2946
20°	2913	2913	2924
25°	2880	2874	2877
30°	2813	2798	2785
35°	2702	2694	2684
40°	2545	2498	2488
45°	2328	2264	2223
50°	2058	2017	1939
55°	1830	1706	1640
60°	1594	1365	1464
65°	1376	1058	1294
70°	1256	866	1253
75°	1266	933	1330
80°	1318	1215	1402
85°	1374	1445	1555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	4.1
10°-20°	594.6	11.9
20°-30°	890.1	17.8
30°-40°	1017.1	20.3
40°-50°	919.5	18.4
50°-60°	661.5	13.2
60°-70°	383.5	7.7
70°-80°	227.5	4.5
80°-90°	100.8	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°	1692.0	33.8
0°-40°	2709.1	54.2
0°-60°	4290.2	85.8
0°-90°	5002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2186	2186	2186	2186	2186	
5°	2185	2182	2180	2177	2184	208
15°	2105	2109	2109	2107	2115	594
25°	1940	1938	1936	1932	1938	892
35°	1645	1637	1640	1620	1634	1025
45°	1224	1202	1190	1179	1168	940
55°	780	766	727	708	699	698
65°	432	384	332	371	407	436
75°	244	204	180	222	256	257
85°	89	96	94	108	101	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2185.7	2185.7	2185.7	2185.7	2185.7
2.5°	2191.9	2184.1	2188.0	2185.7	2184.9
5°	2184.9	2181.8	2180.2	2177.1	2184.1
7.5°	2170.9	2168.5	2169.3	2170.1	2174.8
10°	2156.8	2152.9	2153.7	2155.3	2157.6
12.5°	2135.0	2132.6	2133.4	2135.0	2140.4
15°	2105.3	2109.2	2109.2	2106.9	2114.7
17.5°	2075.7	2074.9	2078.8	2071.8	2082.7
20°	2034.3	2035.1	2034.3	2035.1	2042.1
22.5°	1987.5	1991.4	1989.1	1989.1	1996.9
25°	1939.9	1937.6	1936.0	1932.1	1937.6
27.5°	1882.9	1878.3	1874.3	1866.5	1870.4
30°	1810.4	1811.1	1801.0	1794.0	1792.4
32.5°	1729.2	1729.2	1719.8	1714.4	1719.1
35°	1644.9	1637.1	1640.3	1620.0	1634.0
37.5°	1553.6	1541.1	1534.1	1527.1	1531.8
40°	1449.1	1432.7	1422.5	1408.5	1416.3
42.5°	1339.0	1318.8	1306.3	1296.1	1299.2
45°	1223.6	1202.5	1190.0	1179.1	1168.2
47.5°	1101.8	1088.6	1082.3	1068.3	1055.8
50°	983.2	978.5	963.7	952.0	926.2
52.5°	874.7	870.8	847.4	827.9	795.2
55°	780.3	765.5	727.3	708.5	699.2
57.5°	684.3	660.2	614.1	611.8	618.0
60°	592.3	562.6	507.2	519.7	543.9
62.5°	508.8	464.3	411.2	440.9	469.8
65°	432.3	383.9	332.4	371.4	406.6
67.5°	369.1	320.7	267.7	319.9	360.5
70°	319.2	270.0	220.1	280.1	318.4
72.5°	277.8	233.3	192.0	248.9	288.7
75°	243.5	203.7	179.5	221.6	255.9
77.5°	209.1	177.1	171.7	197.4	218.5
80°	170.1	155.3	156.8	173.2	181.0
82.5°	127.2	128.0	131.9	145.1	142.0
85°	89.0	96.0	93.6	107.7	100.7
87.5°	49.2	53.8	50.7	61.6	55.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)