

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: P293884

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293884
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4986.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

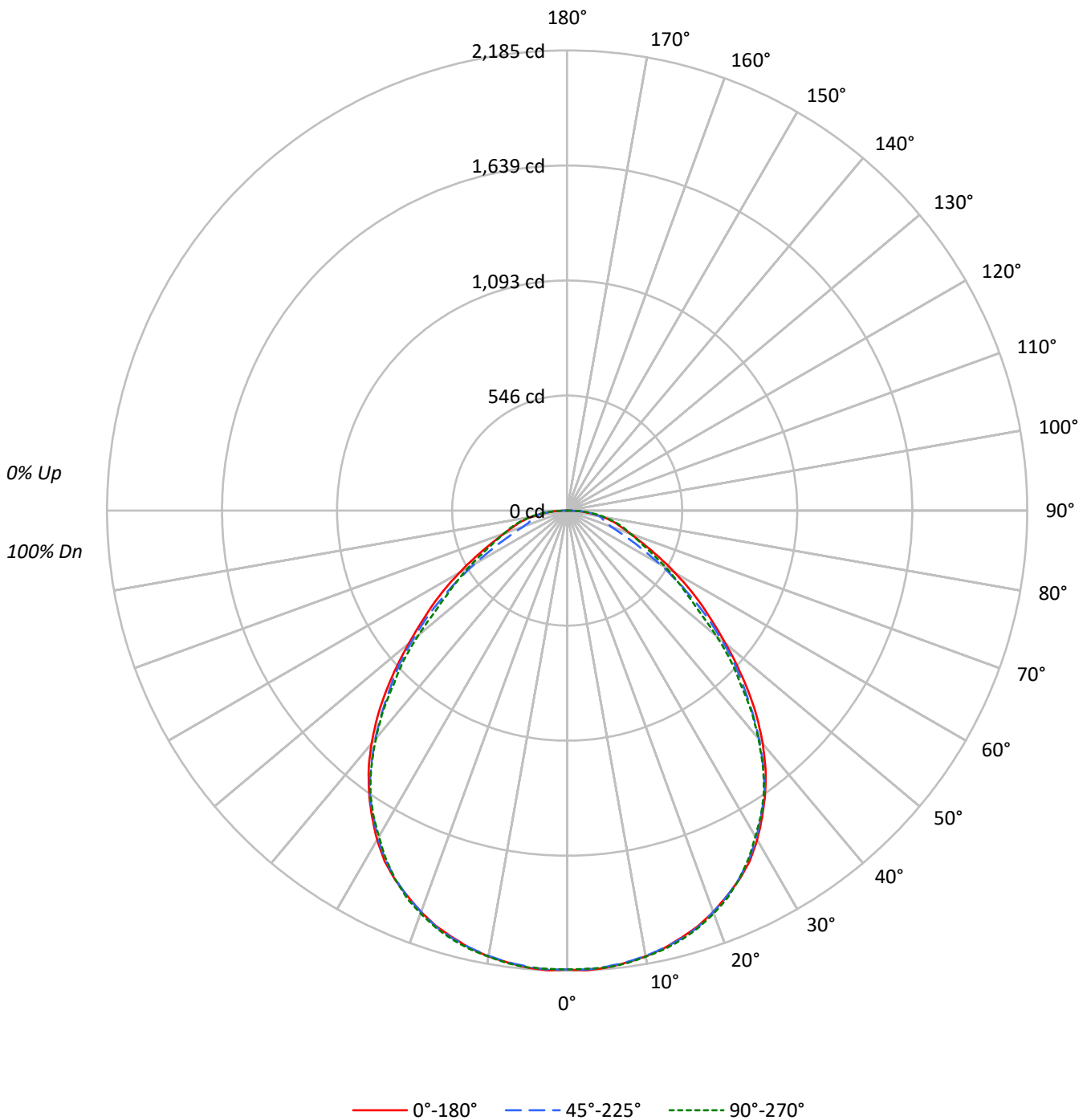
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2931	2931	2931
5°	2942	2935	2941
10°	2937	2933	2938
15°	2923	2929	2936
20°	2903	2903	2915
25°	2871	2865	2867
30°	2804	2789	2776
35°	2693	2686	2675
40°	2537	2491	2480
45°	2321	2257	2216
50°	2052	2011	1933
55°	1825	1700	1635
60°	1589	1361	1459
65°	1372	1055	1290
70°	1251	863	1249
75°	1262	930	1326
80°	1314	1211	1399
85°	1369	1440	1548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	4.1
10°-20°	592.7	11.9
20°-30°	887.2	17.8
30°-40°	1013.8	20.3
40°-50°	916.6	18.4
50°-60°	659.4	13.2
60°-70°	382.3	7.7
70°-80°	226.8	4.5
80°-90°	100.4	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°	1686.6	33.8
0°-40°	2700.5	54.2
0°-60°	4276.5	85.8
0°-90°	4986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2178	2175	2173	2170	2177	207
15°	2099	2102	2102	2100	2108	592
25°	1934	1931	1930	1926	1931	889
35°	1640	1632	1635	1615	1629	1022
45°	1220	1199	1186	1175	1164	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°	2178.7	2178.7	2178.7	2178.7	2178.7
2.5°	2184.9	2177.2	2181.0	2178.7	2177.9
5°	2177.9	2174.8	2173.3	2170.2	2177.2
7.5°	2163.9	2161.6	2162.4	2163.2	2167.8
10°	2149.9	2146.0	2146.8	2148.4	2150.7
12.5°	2128.1	2125.8	2126.6	2128.1	2133.6
15°	2098.6	2102.5	2102.5	2100.1	2107.9
17.5°	2069.0	2068.3	2072.1	2065.1	2076.0
20°	2027.8	2028.6	2027.8	2028.6	2035.6
22.5°	1981.1	1985.0	1982.7	1982.7	1990.5
25°	1933.7	1931.4	1929.8	1925.9	1931.4
27.5°	1876.9	1872.2	1868.4	1860.6	1864.5
30°	1804.6	1805.3	1795.2	1788.2	1786.7
32.5°	1723.7	1723.7	1714.3	1708.9	1713.6
35°	1639.7	1631.9	1635.0	1614.8	1628.8
37.5°	1548.7	1536.2	1529.2	1522.2	1526.9
40°	1444.4	1428.1	1418.0	1404.0	1411.8
42.5°	1334.8	1314.5	1302.1	1292.0	1295.1
45°	1219.6	1198.6	1186.2	1175.3	1164.4
47.5°	1098.3	1085.1	1078.9	1064.9	1052.4
50°	980.1	975.4	960.6	949.0	923.3
52.5°	872.0	868.1	844.7	825.3	792.6
55°	777.8	763.1	724.9	706.3	696.9
57.5°	682.2	658.0	612.2	609.8	616.0
60°	590.4	560.8	505.6	518.0	542.1
62.5°	507.1	462.8	409.9	439.5	468.3
65°	430.9	382.7	331.4	370.2	405.3
67.5°	367.9	319.7	266.8	318.9	359.4
70°	318.1	269.1	219.3	279.2	317.4
72.5°	276.9	232.6	191.3	248.1	287.8
75°	242.7	203.0	178.9	220.9	255.1
77.5°	208.5	176.6	171.1	196.8	217.8
80°	169.6	154.8	156.3	172.7	180.5
82.5°	126.8	127.6	131.5	144.7	141.6
85°	88.7	95.7	93.3	107.3	100.3
87.5°	49.0	53.7	50.6	61.4	55.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)