

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: P293757

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293757
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5514.0 lumens
Efficiency: N/A
Efficacy: 140.8 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

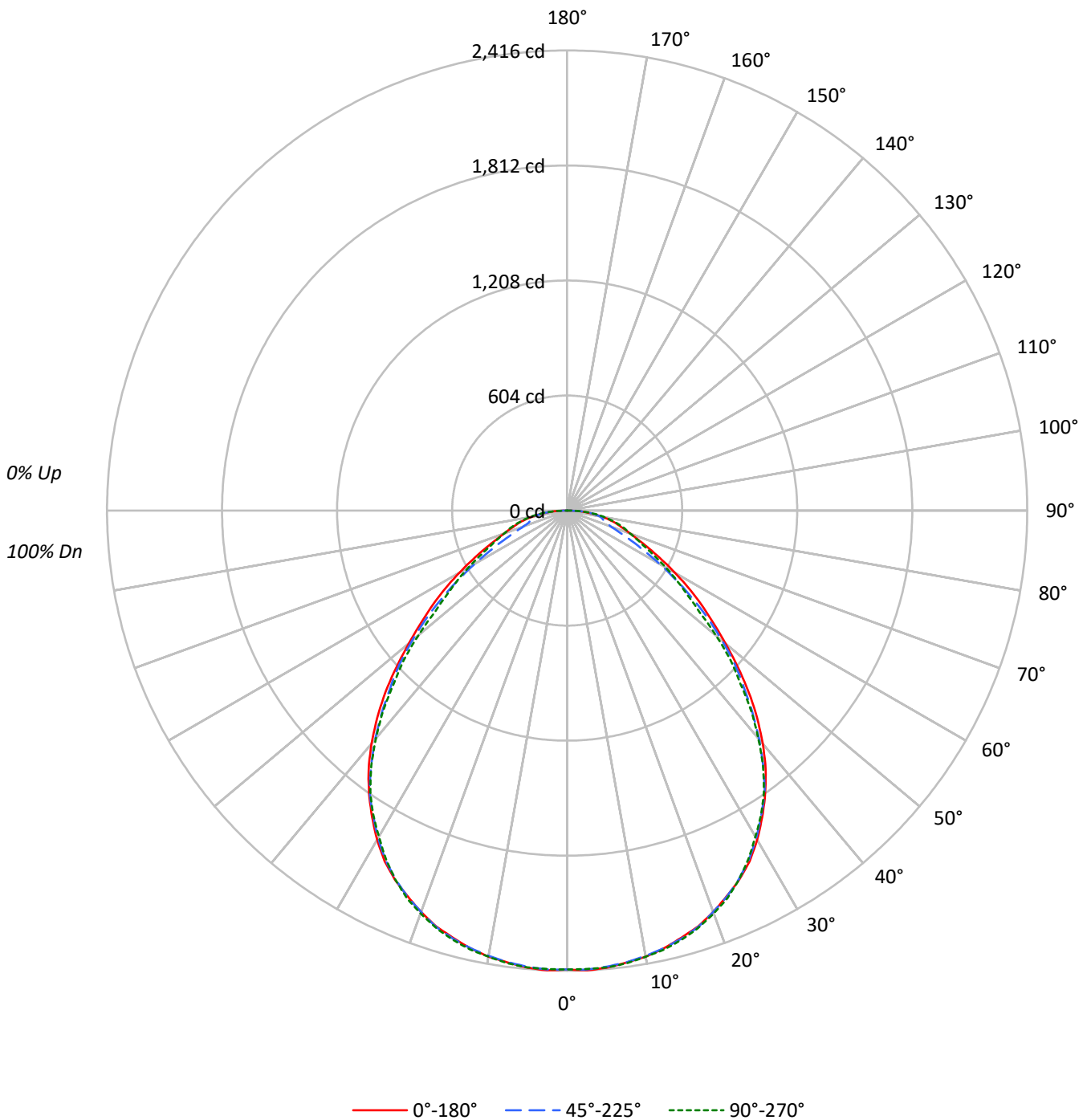
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3242	3242	3242
5°	3253	3246	3252
10°	3248	3244	3250
15°	3233	3239	3247
20°	3211	3211	3223
25°	3175	3168	3171
30°	3101	3084	3070
35°	2978	2970	2959
40°	2806	2754	2742
45°	2567	2496	2450
50°	2269	2224	2137
55°	2018	1881	1808
60°	1757	1505	1614
65°	1517	1167	1427
70°	1384	954	1381
75°	1395	1028	1467
80°	1453	1340	1547
85°	1514	1593	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	4.1
10°-20°	655.5	11.9
20°-30°	981.2	17.8
30°-40°	1121.2	20.3
40°-50°	1013.7	18.4
50°-60°	729.3	13.2
60°-70°	422.8	7.7
70°-80°	250.8	4.5
80°-90°	111.1	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°	1865.2	33.8
0°-40°	2986.4	54.2
0°-60°	4729.4	85.8
0°-90°	5514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2409	2409	2409	2409	2409	
5°	2409	2405	2403	2400	2408	229
15°	2321	2325	2325	2322	2331	655
25°	2138	2136	2134	2130	2136	983
35°	1813	1805	1808	1786	1801	1130
45°	1349	1326	1312	1300	1288	1036
55°	860	844	802	781	771	770
65°	477	423	366	410	448	481
75°	268	224	198	244	282	284
85°	98	106	103	119	111	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2409.4	2409.4	2409.4	2409.4	2409.4
2.5°	2416.3	2407.7	2412.0	2409.4	2408.6
5°	2408.6	2405.1	2403.4	2400.0	2407.7
7.5°	2393.1	2390.5	2391.4	2392.2	2397.4
10°	2377.6	2373.3	2374.2	2375.9	2378.5
12.5°	2353.5	2350.9	2351.8	2353.5	2359.5
15°	2320.8	2325.1	2325.1	2322.5	2331.1
17.5°	2288.1	2287.3	2291.6	2283.8	2295.9
20°	2242.5	2243.4	2242.5	2243.4	2251.1
22.5°	2190.9	2195.2	2192.7	2192.7	2201.3
25°	2138.5	2135.9	2134.2	2129.9	2135.9
27.5°	2075.7	2070.5	2066.2	2057.6	2061.9
30°	1995.7	1996.5	1985.3	1977.6	1975.9
32.5°	1906.2	1906.2	1895.9	1889.9	1895.0
35°	1813.3	1804.7	1808.1	1785.8	1801.3
37.5°	1712.7	1698.9	1691.2	1683.4	1688.6
40°	1597.4	1579.3	1568.1	1552.7	1561.3
42.5°	1476.1	1453.7	1440.0	1428.8	1432.2
45°	1348.8	1325.6	1311.8	1299.8	1287.7
47.5°	1214.6	1200.0	1193.1	1177.6	1163.9
50°	1083.9	1078.7	1062.3	1049.4	1021.1
52.5°	964.3	960.0	934.2	912.7	876.5
55°	860.2	843.9	801.7	781.1	770.7
57.5°	754.4	727.7	677.0	674.4	681.3
60°	652.9	620.2	559.1	572.9	599.6
62.5°	560.9	511.8	453.3	486.0	517.8
65°	476.6	423.2	366.4	409.5	448.2
67.5°	406.9	353.5	295.0	352.7	397.4
70°	351.8	297.6	242.6	308.8	351.0
72.5°	306.2	257.2	211.6	274.4	318.3
75°	268.4	224.5	197.8	244.3	282.1
77.5°	230.5	195.3	189.2	217.6	240.9
80°	187.5	171.2	172.9	191.0	199.6
82.5°	140.2	141.1	145.4	160.0	156.6
85°	98.1	105.8	103.2	118.7	111.0
87.5°	54.2	59.4	55.9	68.0	61.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)