

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: P293758

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293758
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5635.0 lumens
Efficiency: N/A
Efficacy: 142.9 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

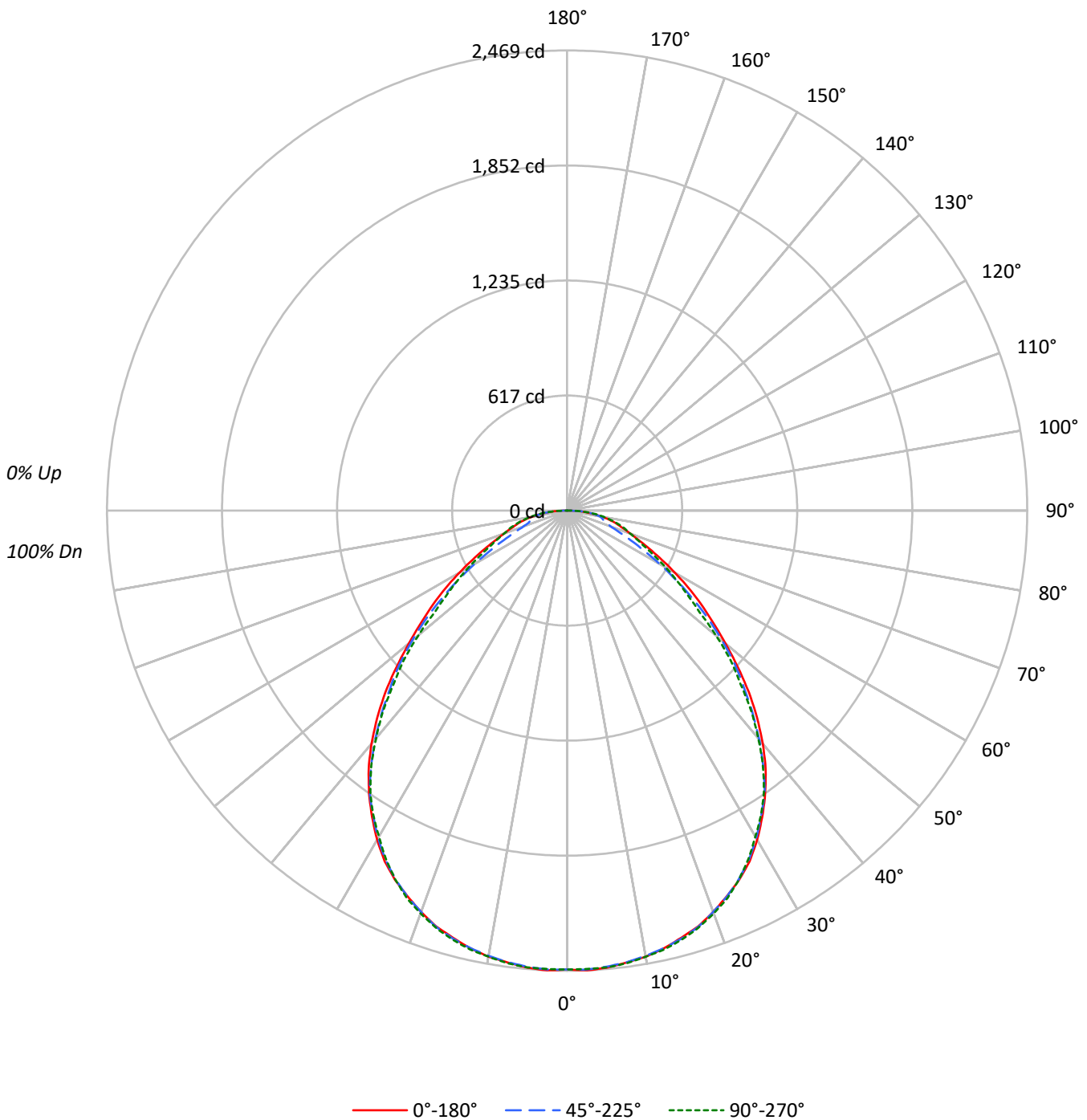
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3313	3313	3313
5°	3324	3317	3323
10°	3320	3315	3321
15°	3304	3310	3318
20°	3281	3281	3294
25°	3244	3238	3241
30°	3169	3152	3137
35°	3044	3035	3024
40°	2867	2815	2802
45°	2623	2551	2504
50°	2318	2273	2184
55°	2062	1922	1848
60°	1795	1538	1649
65°	1550	1192	1458
70°	1414	975	1411
75°	1426	1051	1499
80°	1485	1369	1580
85°	1547	1629	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	4.1
10°-20°	669.9	11.9
20°-30°	1002.7	17.8
30°-40°	1145.8	20.3
40°-50°	1035.9	18.4
50°-60°	745.3	13.2
60°-70°	432.1	7.7
70°-80°	256.3	4.5
80°-90°	113.5	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°	1906.2	33.8
0°-40°	3052.0	54.2
0°-60°	4833.1	85.8
0°-90°	5635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2462	2462	2462	2462	2462	
5°	2461	2458	2456	2453	2460	234
15°	2372	2376	2376	2374	2382	670
25°	2185	2183	2181	2177	2183	1005
35°	1853	1844	1848	1825	1841	1155
45°	1378	1355	1341	1328	1316	1059
55°	879	862	819	798	788	786
65°	487	432	374	418	458	492
75°	274	229	202	250	288	290
85°	100	108	106	121	113	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2462.3	2462.3	2462.3	2462.3	2462.3
2.5°	2469.3	2460.5	2464.9	2462.3	2461.4
5°	2461.4	2457.9	2456.1	2452.6	2460.5
7.5°	2445.6	2443.0	2443.8	2444.7	2450.0
10°	2429.8	2425.4	2426.3	2428.0	2430.7
12.5°	2405.2	2402.5	2403.4	2405.2	2411.3
15°	2371.8	2376.1	2376.1	2373.5	2382.3
17.5°	2338.3	2337.5	2341.9	2334.0	2346.3
20°	2291.8	2292.6	2291.8	2292.6	2300.5
22.5°	2239.0	2243.4	2240.8	2240.8	2249.6
25°	2185.4	2182.8	2181.0	2176.6	2182.8
27.5°	2121.2	2115.9	2111.5	2102.8	2107.2
30°	2039.5	2040.3	2028.9	2021.0	2019.2
32.5°	1948.0	1948.0	1937.5	1931.3	1936.6
35°	1853.1	1844.3	1847.8	1825.0	1840.8
37.5°	1750.2	1736.2	1728.3	1720.4	1725.6
40°	1632.4	1614.0	1602.6	1586.7	1595.5
42.5°	1508.5	1485.6	1471.6	1460.1	1463.7
45°	1378.4	1354.7	1340.6	1328.3	1316.0
47.5°	1241.3	1226.3	1219.3	1203.5	1189.4
50°	1107.6	1102.4	1085.7	1072.5	1043.5
52.5°	985.4	981.1	954.7	932.7	895.8
55°	879.1	862.4	819.3	798.2	787.7
57.5°	771.0	743.7	691.8	689.2	696.2
60°	667.2	633.8	571.4	585.5	612.7
62.5°	573.2	523.1	463.3	496.7	529.2
65°	487.0	432.5	374.5	418.4	458.0
67.5°	415.8	361.3	301.5	360.4	406.1
70°	359.5	304.2	247.9	315.6	358.7
72.5°	313.0	262.8	216.3	280.4	325.3
75°	274.3	229.4	202.2	249.7	288.3
77.5°	235.6	199.6	193.4	222.4	246.1
80°	191.6	174.9	176.7	195.2	203.9
82.5°	143.3	144.2	148.6	163.5	160.0
85°	100.2	108.1	105.5	121.3	113.4
87.5°	55.4	60.7	57.1	69.4	62.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)