

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: P475751

Luminaire Tested: **24GR-LD5-56-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475751
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5633.7 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

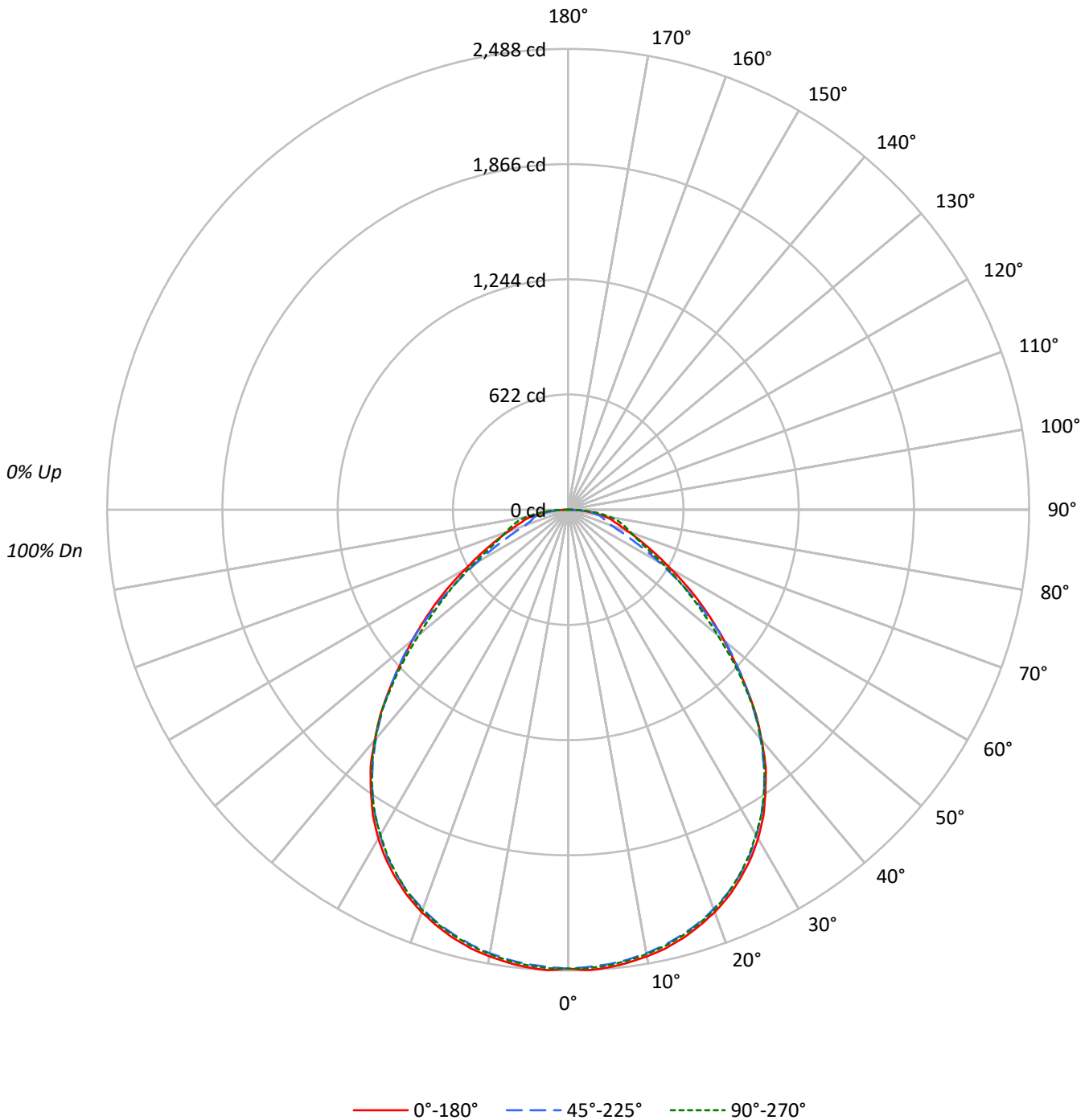
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	92	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	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58					56				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	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	42	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3334	3334	3334
5°	3351	3328	3336
10°	3345	3323	3329
15°	3336	3309	3317
20°	3310	3286	3295
25°	3264	3240	3237
30°	3184	3155	3147
35°	3048	3029	3029
40°	2852	2835	2847
45°	2589	2585	2564
50°	2297	2314	2200
55°	2018	1930	1884
60°	1718	1524	1603
65°	1501	1185	1415
70°	1357	976	1412
75°	1358	1041	1577
80°	1495	1281	1805
85°	1541	1439	1970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	4.2
10°-20°	671.7	11.9
20°-30°	1004.9	17.8
30°-40°	1149.9	20.4
40°-50°	1041.8	18.5
50°-60°	737.6	13.1
60°-70°	426.1	7.6
70°-80°	258.3	4.6
80°-90°	108.7	1.9
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°	1911.2	33.9
0°-40°	3061.1	54.3
0°-60°	4840.6	85.9
0°-90°	5633.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5633.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2478	2478	2478	2478	2478	
5°	2481	2472	2464	2464	2470	236
15°	2395	2385	2376	2376	2381	675
25°	2198	2189	2182	2181	2181	1011
35°	1856	1847	1844	1841	1844	1158
45°	1361	1358	1358	1348	1347	1048
55°	860	832	823	798	803	771
65°	472	423	372	426	444	474
75°	261	234	200	257	303	280
85°	100	90	93	119	128	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2477.9	2477.9	2477.9	2477.9	2477.9
2.5°	2488.4	2479.0	2470.7	2471.8	2477.9
5°	2480.7	2471.8	2464.0	2463.5	2469.6
7.5°	2467.4	2459.6	2450.7	2450.7	2455.7
10°	2448.5	2440.7	2431.9	2431.3	2436.8
12.5°	2426.3	2416.3	2406.9	2406.9	2413.0
15°	2394.7	2385.3	2375.8	2375.8	2381.4
17.5°	2355.9	2347.5	2339.8	2340.3	2344.8
20°	2311.5	2303.2	2294.8	2295.9	2300.9
22.5°	2260.4	2250.5	2243.8	2243.3	2246.6
25°	2198.3	2189.4	2182.2	2180.6	2180.6
27.5°	2129.0	2119.6	2114.6	2106.8	2109.0
30°	2049.7	2039.7	2030.8	2026.4	2025.8
32.5°	1960.3	1950.4	1942.6	1942.0	1944.3
35°	1855.5	1847.2	1843.9	1841.1	1843.9
37.5°	1751.8	1736.2	1733.5	1732.9	1740.1
40°	1623.6	1618.1	1614.2	1611.4	1620.9
42.5°	1500.5	1489.4	1490.5	1480.0	1496.6
45°	1360.7	1357.9	1358.5	1348.5	1347.4
47.5°	1222.0	1221.5	1229.8	1202.1	1200.4
50°	1097.2	1091.7	1105.5	1062.8	1051.2
52.5°	978.0	962.4	958.0	919.2	919.2
55°	860.4	831.5	822.6	798.2	803.2
57.5°	748.9	707.8	689.5	689.0	697.3
60°	638.5	591.9	566.4	586.3	595.8
62.5°	550.8	499.8	461.0	498.7	507.6
65°	471.5	422.7	372.2	426.0	444.3
67.5°	403.3	362.8	299.5	370.0	394.4
70°	345.0	309.0	248.0	326.2	358.9
72.5°	299.0	269.0	215.8	291.2	330.6
75°	261.3	234.1	200.3	257.4	303.4
77.5°	231.3	199.1	187.5	225.2	272.4
80°	193.0	163.6	165.3	193.6	233.0
82.5°	148.7	126.5	133.1	160.3	183.1
85°	99.8	89.9	93.2	119.3	127.6
87.5°	49.4	47.7	51.0	69.9	69.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)