

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: P293253

Luminaire Tested: **24GR-LD5-56-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5504.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

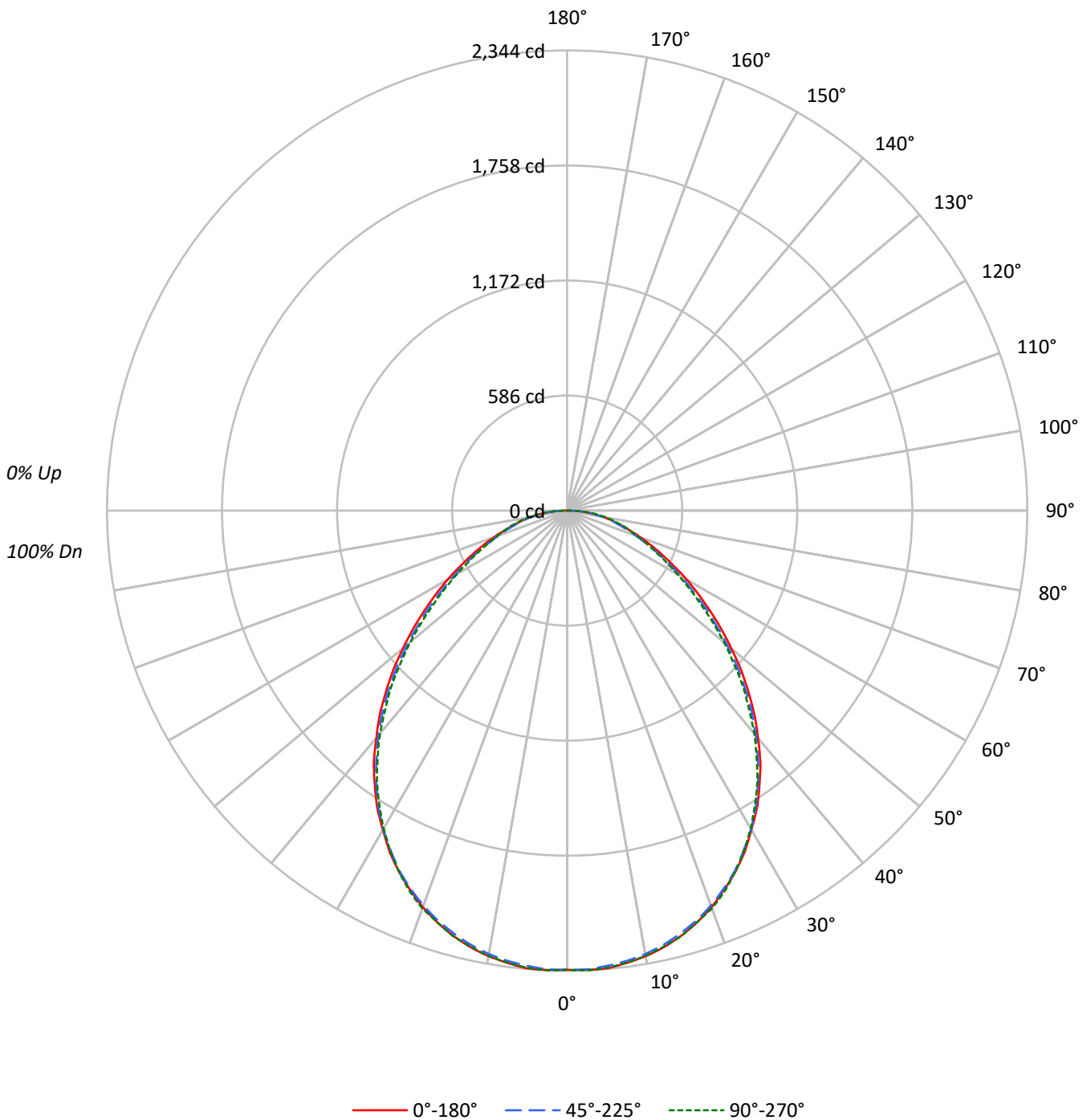
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3147	3147	3147
5°	3162	3144	3157
10°	3149	3134	3148
15°	3124	3107	3127
20°	3078	3066	3088
25°	3012	3004	3010
30°	2916	2911	2905
35°	2806	2785	2774
40°	2656	2626	2605
45°	2485	2439	2410
50°	2283	2222	2184
55°	2083	2006	1947
60°	1891	1790	1743
65°	1704	1608	1580
70°	1560	1459	1499
75°	1458	1391	1494
80°	1447	1420	1560
85°	1474	1488	1700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	4.0
10°-20°	629.4	11.4
20°-30°	929.8	16.9
30°-40°	1057.1	19.2
40°-50°	987.2	17.9
50°-60°	767.7	13.9
60°-70°	509.4	9.3
70°-80°	294.8	5.4
80°-90°	107.2	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°	1780.6	32.4
0°-40°	2837.7	51.6
0°-60°	4592.6	83.4
0°-90°	5504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2339	2339	2339	2339	2339	
5°	2341	2329	2328	2332	2338	222
15°	2243	2232	2231	2230	2245	632
25°	2029	2020	2024	2019	2028	933
35°	1709	1700	1696	1684	1689	1067
45°	1306	1296	1282	1266	1266	1006
55°	888	875	855	833	830	796
65°	535	519	505	496	496	535
75°	280	274	268	280	287	300
85°	96	94	96	109	110	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2339.2	2339.2	2339.2	2339.2	2339.2
2.5°	2342.6	2335.8	2339.2	2336.6	2344.4
5°	2340.9	2328.9	2328.0	2332.3	2337.5
7.5°	2324.6	2311.7	2314.3	2314.3	2322.9
10°	2304.8	2291.9	2293.6	2294.5	2303.9
12.5°	2278.1	2265.2	2266.1	2265.2	2274.7
15°	2242.8	2231.7	2230.8	2229.9	2244.6
17.5°	2199.8	2184.3	2189.5	2190.4	2198.1
20°	2149.9	2137.9	2141.3	2140.5	2156.8
22.5°	2090.6	2082.0	2084.5	2082.8	2098.3
25°	2028.6	2020.0	2023.5	2019.2	2027.8
27.5°	1958.9	1952.9	1949.5	1946.9	1952.9
30°	1877.2	1873.8	1873.8	1862.6	1869.5
32.5°	1799.8	1788.6	1788.6	1784.3	1780.0
35°	1708.6	1700.0	1695.7	1683.6	1688.8
37.5°	1617.4	1597.6	1595.9	1586.4	1586.4
40°	1512.4	1501.3	1495.2	1484.9	1483.2
42.5°	1412.6	1401.5	1391.1	1373.9	1370.5
45°	1306.0	1295.6	1281.9	1265.5	1266.4
47.5°	1200.1	1185.5	1172.6	1152.8	1150.2
50°	1090.9	1080.6	1061.6	1044.4	1043.6
52.5°	988.5	972.2	955.0	934.3	934.3
55°	887.8	874.9	855.2	832.8	830.2
57.5°	791.5	779.4	757.1	740.7	736.4
60°	702.9	685.7	665.0	651.3	647.8
62.5°	614.3	598.8	583.3	569.5	568.7
65°	535.1	518.8	505.0	495.5	496.4
67.5°	463.7	449.9	434.5	431.9	432.7
70°	396.6	382.0	370.8	376.8	381.1
72.5°	332.9	325.2	317.5	326.1	332.1
75°	280.5	273.6	267.6	279.6	287.3
77.5°	232.3	227.1	226.3	236.6	243.5
80°	186.7	180.7	183.2	195.3	201.3
82.5°	142.0	137.7	138.5	153.1	157.4
85°	95.5	93.8	96.4	109.3	110.1
87.5°	50.8	50.8	52.5	60.2	57.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)