

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: P293280

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293280
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-LD5-85-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: 8096.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

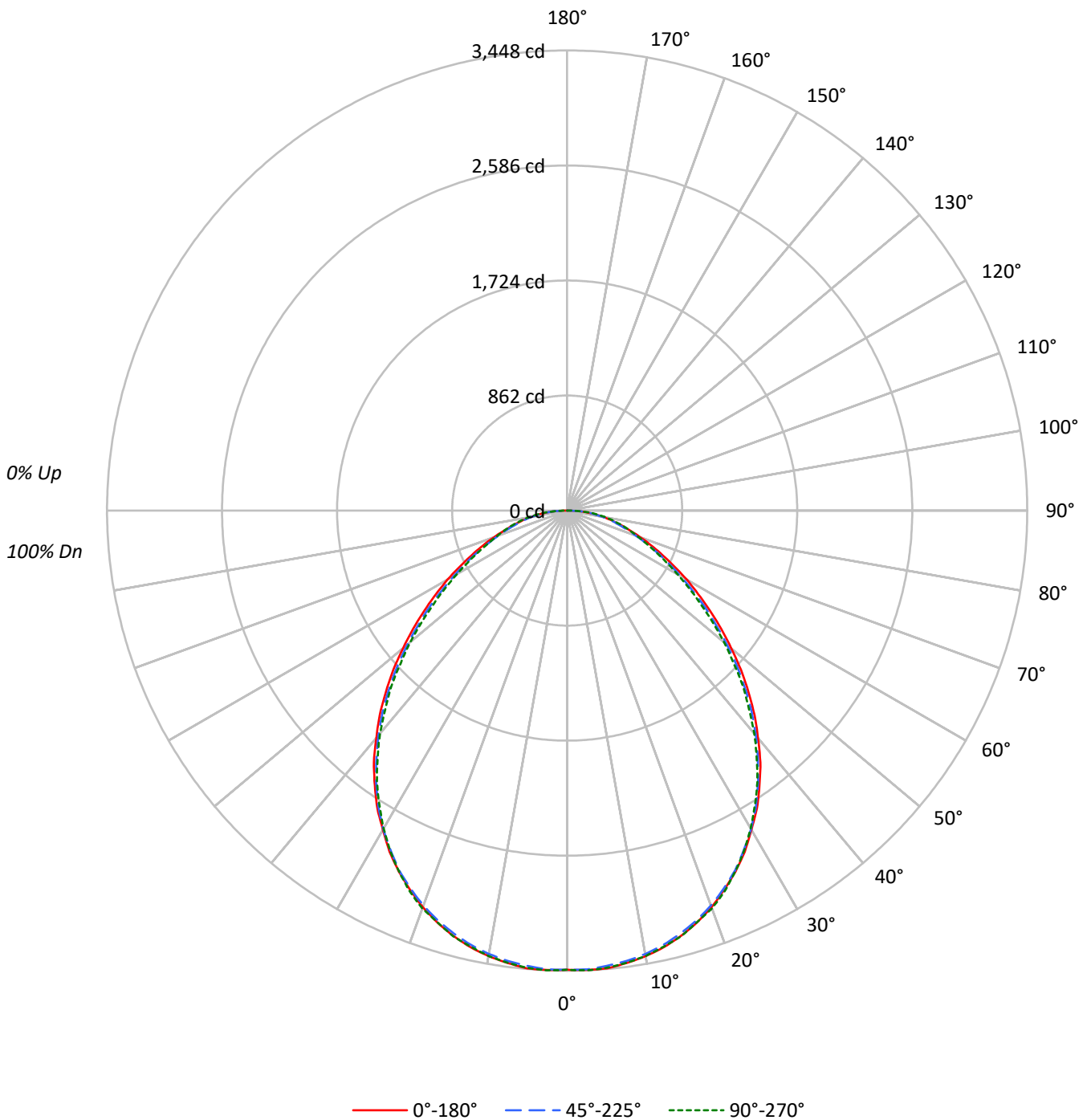
Input Watts (W): 62.682
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4630	4630	4630
5°	4651	4625	4644
10°	4632	4609	4630
15°	4595	4571	4599
20°	4528	4510	4543
25°	4430	4419	4428
30°	4290	4282	4272
35°	4128	4097	4080
40°	3907	3863	3832
45°	3655	3588	3545
50°	3359	3269	3213
55°	3064	2951	2865
60°	2782	2632	2564
65°	2506	2365	2325
70°	2295	2146	2205
75°	2144	2046	2197
80°	2128	2088	2294
85°	2169	2188	2501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	4.0
10°-20°	925.8	11.4
20°-30°	1367.7	16.9
30°-40°	1554.9	19.2
40°-50°	1452.1	17.9
50°-60°	1129.3	13.9
60°-70°	749.3	9.3
70°-80°	433.6	5.4
80°-90°	157.7	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°	2619.1	32.4
0°-40°	4174.1	51.6
0°-60°	6755.4	83.4
0°-90°	8096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3441	3441	3441	3441	3441	
5°	3443	3426	3424	3431	3438	327
15°	3299	3283	3281	3280	3302	929
25°	2984	2971	2976	2970	2983	1372
35°	2513	2501	2494	2476	2484	1569
45°	1921	1906	1886	1862	1863	1480
55°	1306	1287	1258	1225	1221	1171
65°	787	763	743	729	730	787
75°	412	402	394	411	423	441
85°	140	138	142	161	162	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3440.8	3440.8	3440.8	3440.8	3440.8
2.5°	3445.9	3435.7	3440.8	3437.0	3448.4
5°	3443.3	3425.6	3424.3	3430.7	3438.3
7.5°	3419.3	3400.3	3404.1	3404.1	3416.8
10°	3390.2	3371.2	3373.7	3375.0	3388.9
12.5°	3351.0	3332.0	3333.2	3332.0	3345.9
15°	3299.1	3282.6	3281.4	3280.1	3301.6
17.5°	3235.8	3213.0	3220.6	3221.9	3233.3
20°	3162.4	3144.7	3149.7	3148.5	3172.5
22.5°	3075.1	3062.4	3066.2	3063.7	3086.5
25°	2984.0	2971.3	2976.4	2970.0	2982.7
27.5°	2881.5	2872.6	2867.5	2863.7	2872.6
30°	2761.2	2756.2	2756.2	2739.7	2749.9
32.5°	2647.4	2630.9	2630.9	2624.6	2618.2
35°	2513.2	2500.6	2494.2	2476.5	2484.1
37.5°	2379.1	2350.0	2347.4	2333.5	2333.5
40°	2224.7	2208.2	2199.4	2184.2	2181.7
42.5°	2077.9	2061.4	2046.3	2020.9	2015.9
45°	1921.0	1905.8	1885.5	1861.5	1862.8
47.5°	1765.3	1743.8	1724.8	1695.7	1691.9
50°	1604.6	1589.4	1561.6	1536.3	1535.0
52.5°	1454.0	1430.0	1404.7	1374.3	1374.3
55°	1306.0	1287.0	1257.9	1225.0	1221.2
57.5°	1164.2	1146.5	1113.6	1089.6	1083.2
60°	1033.9	1008.6	978.2	958.0	952.9
62.5°	903.5	880.8	858.0	837.7	836.5
65°	787.1	763.1	742.8	728.9	730.2
67.5°	682.1	661.8	639.1	635.3	636.5
70°	583.4	561.9	545.4	554.3	560.6
72.5°	489.7	478.3	467.0	479.6	488.5
75°	412.5	402.4	393.6	411.3	422.7
77.5°	341.7	334.1	332.8	348.0	358.1
80°	274.6	265.7	269.5	287.3	296.1
82.5°	208.8	202.5	203.7	225.3	231.6
85°	140.5	137.9	141.7	160.7	162.0
87.5°	74.7	74.7	77.2	88.6	84.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)