

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: P293202

Luminaire Tested: **24GR-LD5-85-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293202
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-L83050-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: 8289.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

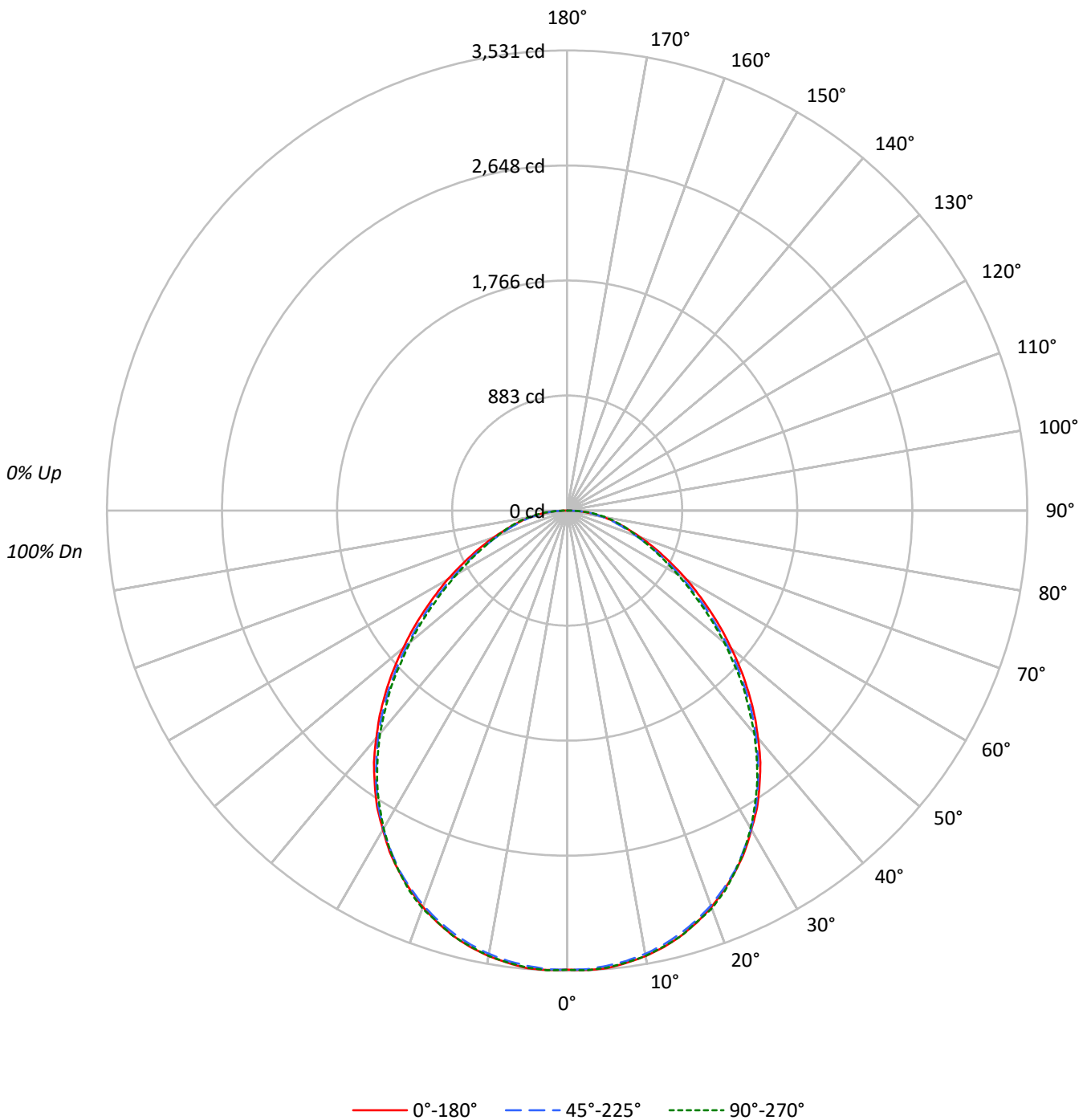
Input Watts (W): 62.403
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	4740	4740	4740
5°	4762	4735	4754
10°	4742	4719	4740
15°	4705	4680	4709
20°	4636	4617	4651
25°	4536	4524	4534
30°	4392	4384	4374
35°	4226	4195	4177
40°	4001	3955	3923
45°	3742	3673	3629
50°	3439	3347	3290
55°	3137	3021	2933
60°	2848	2695	2625
65°	2566	2421	2380
70°	2350	2197	2258
75°	2196	2095	2249
80°	2179	2139	2349
85°	2220	2240	2560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.4	4.0
10°-20°	947.9	11.4
20°-30°	1400.3	16.9
30°-40°	1592.0	19.2
40°-50°	1486.7	17.9
50°-60°	1156.2	13.9
60°-70°	767.2	9.3
70°-80°	443.9	5.4
80°-90°	161.4	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°	2681.6	32.4
0°-40°	4273.6	51.6
0°-60°	6916.5	83.4
0°-90°	8289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3523	3523	3523	3523	3523	
5°	3525	3507	3506	3512	3520	335
15°	3378	3361	3360	3358	3380	952
25°	3055	3042	3047	3041	3054	1405
35°	2573	2560	2554	2536	2543	1606
45°	1967	1951	1930	1906	1907	1515
55°	1337	1318	1288	1254	1250	1199
65°	806	781	760	746	748	805
75°	422	412	403	421	433	452
85°	144	141	145	164	166	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3522.8	3522.8	3522.8	3522.8	3522.8
2.5°	3528.0	3517.6	3522.8	3518.9	3530.6
5°	3525.4	3507.3	3506.0	3512.5	3520.2
7.5°	3500.8	3481.4	3485.3	3485.3	3498.2
10°	3471.0	3451.6	3454.2	3455.5	3469.7
12.5°	3430.8	3411.4	3412.7	3411.4	3425.7
15°	3377.7	3360.9	3359.6	3358.3	3380.3
17.5°	3312.9	3289.6	3297.4	3298.7	3310.3
20°	3237.8	3219.6	3224.8	3223.5	3248.1
22.5°	3148.4	3135.4	3139.3	3136.7	3160.0
25°	3055.1	3042.1	3047.3	3040.8	3053.8
27.5°	2950.2	2941.1	2935.9	2932.0	2941.1
30°	2827.1	2821.9	2821.9	2805.0	2815.4
32.5°	2710.5	2693.6	2693.6	2687.1	2680.7
35°	2573.1	2560.2	2553.7	2535.6	2543.3
37.5°	2435.8	2406.0	2403.4	2389.1	2389.1
40°	2277.7	2260.9	2251.8	2236.3	2233.7
42.5°	2127.4	2110.6	2095.0	2069.1	2063.9
45°	1966.8	1951.2	1930.5	1905.9	1907.2
47.5°	1807.4	1785.4	1765.9	1736.1	1732.3
50°	1642.9	1627.3	1598.8	1572.9	1571.6
52.5°	1488.7	1464.1	1438.2	1407.1	1407.1
55°	1337.1	1317.7	1287.9	1254.2	1250.3
57.5°	1192.0	1173.8	1140.2	1115.5	1109.1
60°	1058.5	1032.6	1001.5	980.8	975.6
62.5°	925.1	901.8	878.4	857.7	856.4
65°	805.9	781.3	760.5	746.3	747.6
67.5°	698.3	677.6	654.3	650.4	651.7
70°	597.3	575.3	558.4	567.5	574.0
72.5°	501.4	489.7	478.1	491.0	500.1
75°	422.4	412.0	402.9	421.1	432.7
77.5°	349.8	342.0	340.8	356.3	366.7
80°	281.2	272.1	276.0	294.1	303.2
82.5°	213.8	207.3	208.6	230.6	237.1
85°	143.8	141.2	145.1	164.5	165.8
87.5°	76.4	76.4	79.0	90.7	86.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)