

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: P293281

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293281
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8274.0 lumens
Efficiency: N/A
Efficacy: 131.0 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

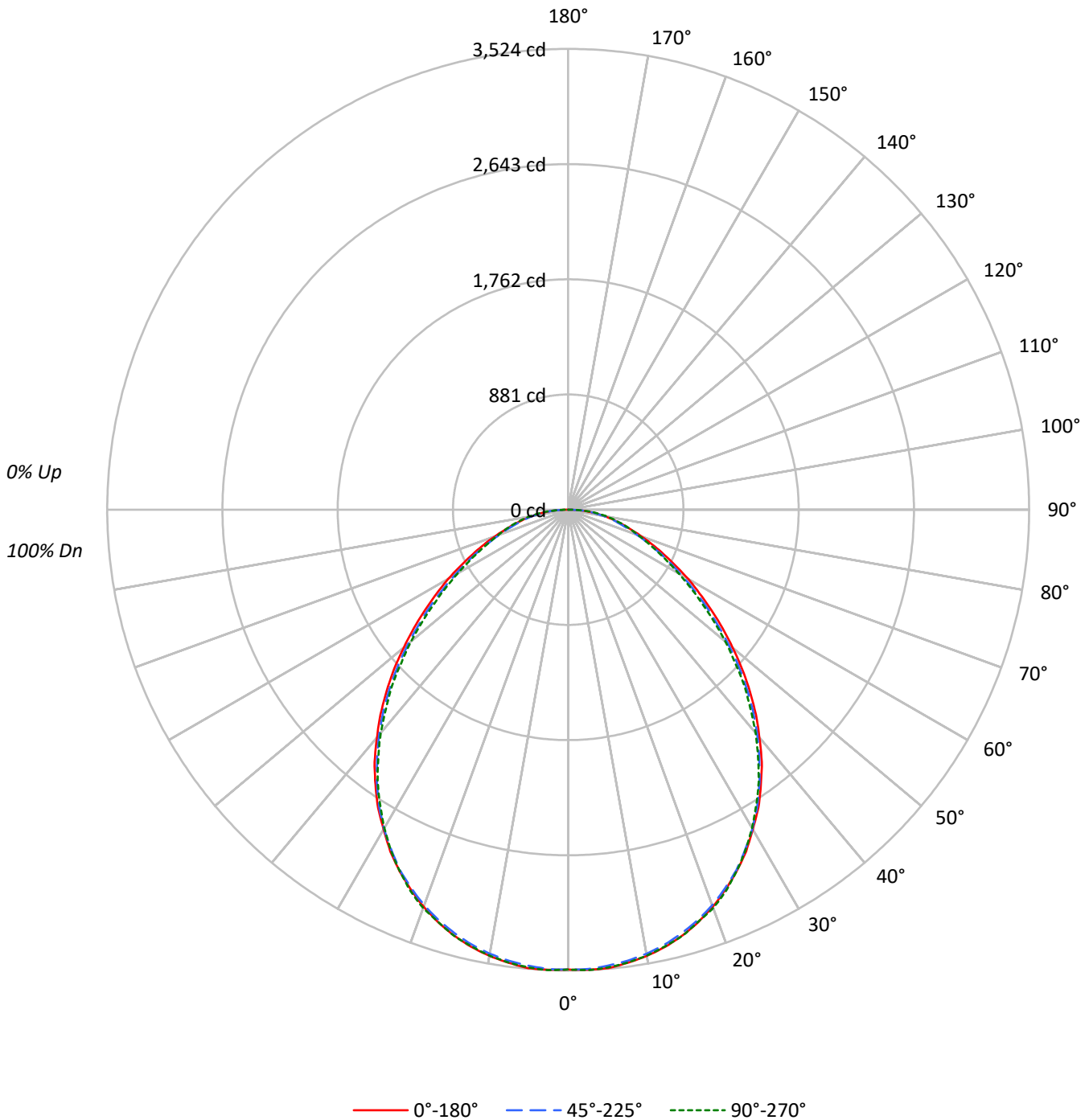
Input Watts (W): 63.147
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4731	4731	4731
5°	4753	4727	4746
10°	4734	4711	4732
15°	4696	4671	4700
20°	4628	4609	4642
25°	4527	4516	4525
30°	4384	4376	4366
35°	4219	4187	4170
40°	3993	3948	3916
45°	3736	3667	3622
50°	3433	3341	3284
55°	3131	3016	2928
60°	2843	2690	2620
65°	2561	2417	2376
70°	2345	2193	2254
75°	2192	2091	2246
80°	2174	2135	2345
85°	2217	2235	2555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	4.0
10°-20°	946.2	11.4
20°-30°	1397.8	16.9
30°-40°	1589.1	19.2
40°-50°	1484.0	17.9
50°-60°	1154.1	13.9
60°-70°	765.8	9.3
70°-80°	443.2	5.4
80°-90°	161.1	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
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0°-30°	2676.7	32.4
0°-40°	4265.8	51.6
0°-60°	6903.9	83.4
0°-90°	8274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3516	3516	3516	3516	3516	
5°	3519	3501	3500	3506	3514	334
15°	3372	3355	3354	3352	3374	950
25°	3050	3037	3042	3035	3048	1402
35°	2568	2556	2549	2531	2539	1604
45°	1963	1948	1927	1902	1904	1513
55°	1335	1315	1286	1252	1248	1197
65°	804	780	759	745	746	804
75°	422	411	402	420	432	451
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°	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3521.6	3511.3	3516.4	3512.6	3524.2
5°	3519.0	3500.9	3499.6	3506.1	3513.9
7.5°	3494.5	3475.1	3478.9	3478.9	3491.9
10°	3464.7	3445.3	3447.9	3449.2	3463.4
12.5°	3424.6	3405.2	3406.5	3405.2	3419.5
15°	3371.6	3354.8	3353.5	3352.2	3374.2
17.5°	3306.9	3283.7	3291.4	3292.7	3304.3
20°	3231.9	3213.8	3219.0	3217.7	3242.3
22.5°	3142.7	3129.8	3133.6	3131.0	3154.3
25°	3049.6	3036.6	3041.8	3035.3	3048.3
27.5°	2944.8	2935.8	2930.6	2926.7	2935.8
30°	2822.0	2816.8	2816.8	2800.0	2810.3
32.5°	2705.6	2688.7	2688.7	2682.3	2675.8
35°	2568.5	2555.5	2549.1	2531.0	2538.7
37.5°	2431.4	2401.6	2399.0	2384.8	2384.8
40°	2273.6	2256.8	2247.7	2232.2	2229.6
42.5°	2123.6	2106.8	2091.2	2065.4	2060.2
45°	1963.2	1947.7	1927.0	1902.4	1903.7
47.5°	1804.1	1782.2	1762.8	1733.0	1729.1
50°	1639.9	1624.4	1595.9	1570.1	1568.8
52.5°	1486.0	1461.4	1435.5	1404.5	1404.5
55°	1334.7	1315.3	1285.5	1251.9	1248.0
57.5°	1189.8	1171.7	1138.1	1113.5	1107.1
60°	1056.6	1030.8	999.7	979.0	973.8
62.5°	923.4	900.1	876.8	856.2	854.9
65°	804.4	779.9	759.2	744.9	746.2
67.5°	697.1	676.4	653.1	649.2	650.5
70°	596.2	574.2	557.4	566.5	572.9
72.5°	500.5	488.9	477.2	490.2	499.2
75°	421.6	411.3	402.2	420.3	432.0
77.5°	349.2	341.4	340.1	355.7	366.0
80°	280.6	271.6	275.5	293.6	302.6
82.5°	213.4	206.9	208.2	230.2	236.7
85°	143.6	141.0	144.8	164.2	165.5
87.5°	76.3	76.3	78.9	90.5	86.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)