

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: P293412

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293412
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-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7867.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

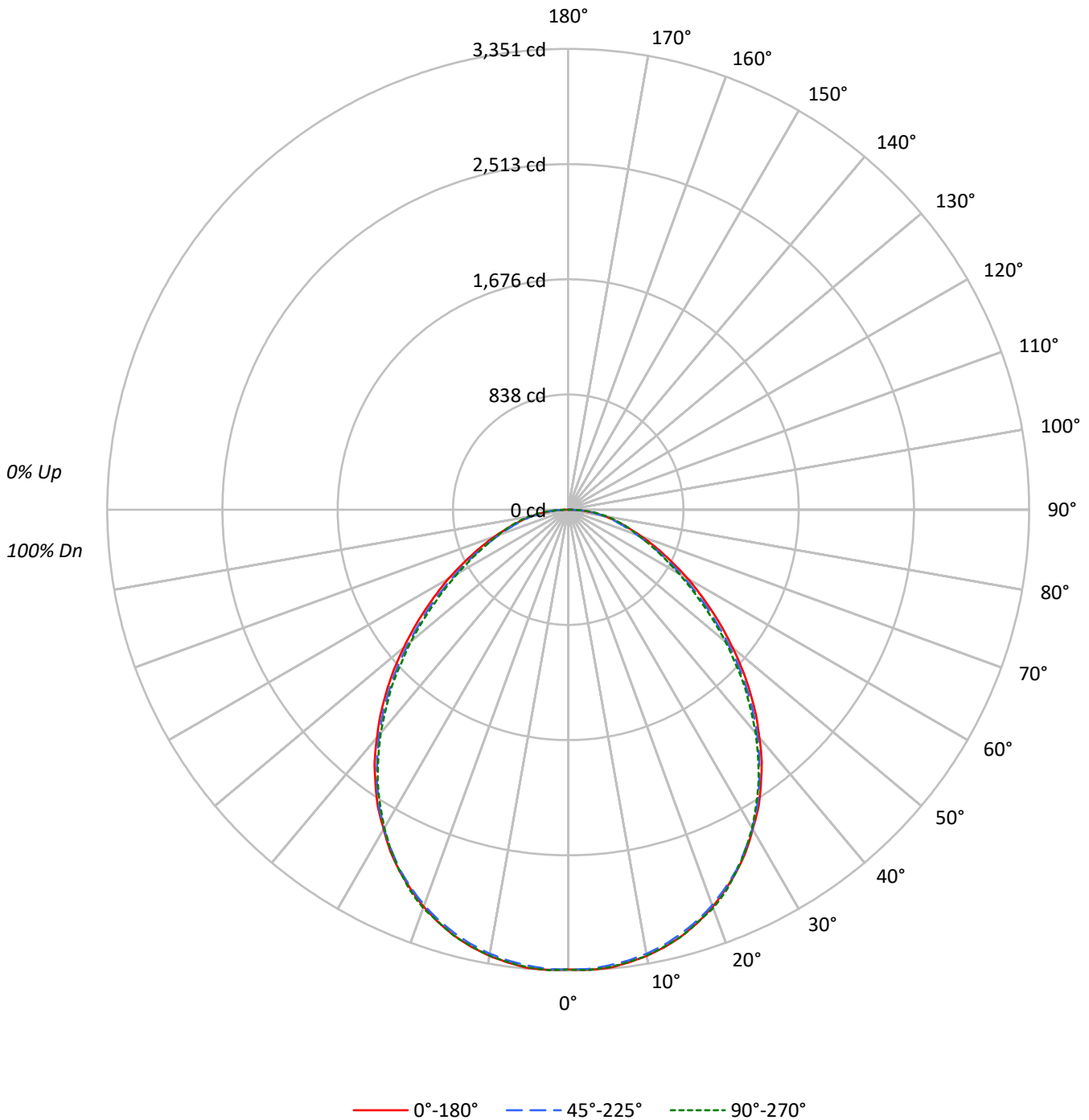
Input Watts (W): 65.286
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4499	4499	4499
5°	4519	4494	4512
10°	4501	4479	4499
15°	4466	4441	4469
20°	4400	4382	4414
25°	4305	4294	4303
30°	4169	4161	4151
35°	4011	3981	3965
40°	3797	3754	3724
45°	3552	3486	3444
50°	3264	3176	3122
55°	2977	2867	2784
60°	2703	2558	2492
65°	2435	2298	2259
70°	2230	2085	2143
75°	2084	1988	2135
80°	2067	2029	2229
85°	2107	2126	2430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	4.0
10°-20°	899.6	11.4
20°-30°	1329.0	16.9
30°-40°	1511.0	19.2
40°-50°	1411.0	17.9
50°-60°	1097.3	13.9
60°-70°	728.1	9.3
70°-80°	421.3	5.4
80°-90°	153.2	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°	2545.0	32.4
0°-40°	4056.0	51.6
0°-60°	6564.3	83.4
0°-90°	7867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3344	3344	3344	3344	3344	
5°	3346	3329	3328	3334	3341	317
15°	3206	3190	3188	3187	3208	903
25°	2900	2887	2892	2886	2898	1333
35°	2442	2430	2424	2406	2414	1525
45°	1867	1852	1832	1809	1810	1438
55°	1269	1251	1222	1190	1187	1138
65°	765	742	722	708	710	764
75°	401	391	382	400	411	429
85°	136	134	138	156	157	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3343.5	3343.5	3343.5	3343.5	3343.5
2.5°	3348.4	3338.6	3343.5	3339.8	3350.9
5°	3345.9	3328.7	3327.5	3333.6	3341.0
7.5°	3322.6	3304.1	3307.8	3307.8	3320.1
10°	3294.3	3275.8	3278.3	3279.5	3293.1
12.5°	3256.2	3237.7	3239.0	3237.7	3251.2
15°	3205.8	3189.8	3188.5	3187.3	3208.2
17.5°	3144.3	3122.1	3129.5	3130.7	3141.8
20°	3072.9	3055.7	3060.6	3059.4	3082.8
22.5°	2988.1	2975.8	2979.5	2977.0	2999.2
25°	2899.6	2887.3	2892.2	2886.0	2898.3
27.5°	2800.0	2791.4	2786.4	2782.7	2791.4
30°	2683.1	2678.2	2678.2	2662.2	2672.1
32.5°	2572.5	2556.5	2556.5	2550.3	2544.2
35°	2442.1	2429.8	2423.7	2406.5	2413.8
37.5°	2311.8	2283.5	2281.0	2267.5	2267.5
40°	2161.8	2145.8	2137.2	2122.4	2120.0
42.5°	2019.1	2003.1	1988.4	1963.8	1958.9
45°	1866.6	1851.9	1832.2	1808.8	1810.1
47.5°	1715.4	1694.5	1676.0	1647.8	1644.1
50°	1559.2	1544.5	1517.4	1492.8	1491.6
52.5°	1412.9	1389.5	1364.9	1335.4	1335.4
55°	1269.0	1250.6	1222.3	1190.3	1186.6
57.5°	1131.3	1114.1	1082.1	1058.7	1052.6
60°	1004.6	980.0	950.5	930.9	925.9
62.5°	878.0	855.9	833.7	814.0	812.8
65°	764.9	741.5	721.8	708.3	709.5
67.5°	662.8	643.1	621.0	617.3	618.5
70°	566.9	546.0	530.0	538.6	544.7
72.5°	475.9	464.8	453.7	466.0	474.7
75°	400.9	391.0	382.4	399.6	410.7
77.5°	332.0	324.6	323.4	338.2	348.0
80°	266.8	258.2	261.9	279.1	287.7
82.5°	202.9	196.7	198.0	218.9	225.0
85°	136.5	134.0	137.7	156.2	157.4
87.5°	72.6	72.6	75.0	86.1	82.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)