

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: P293411

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293411
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7814.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

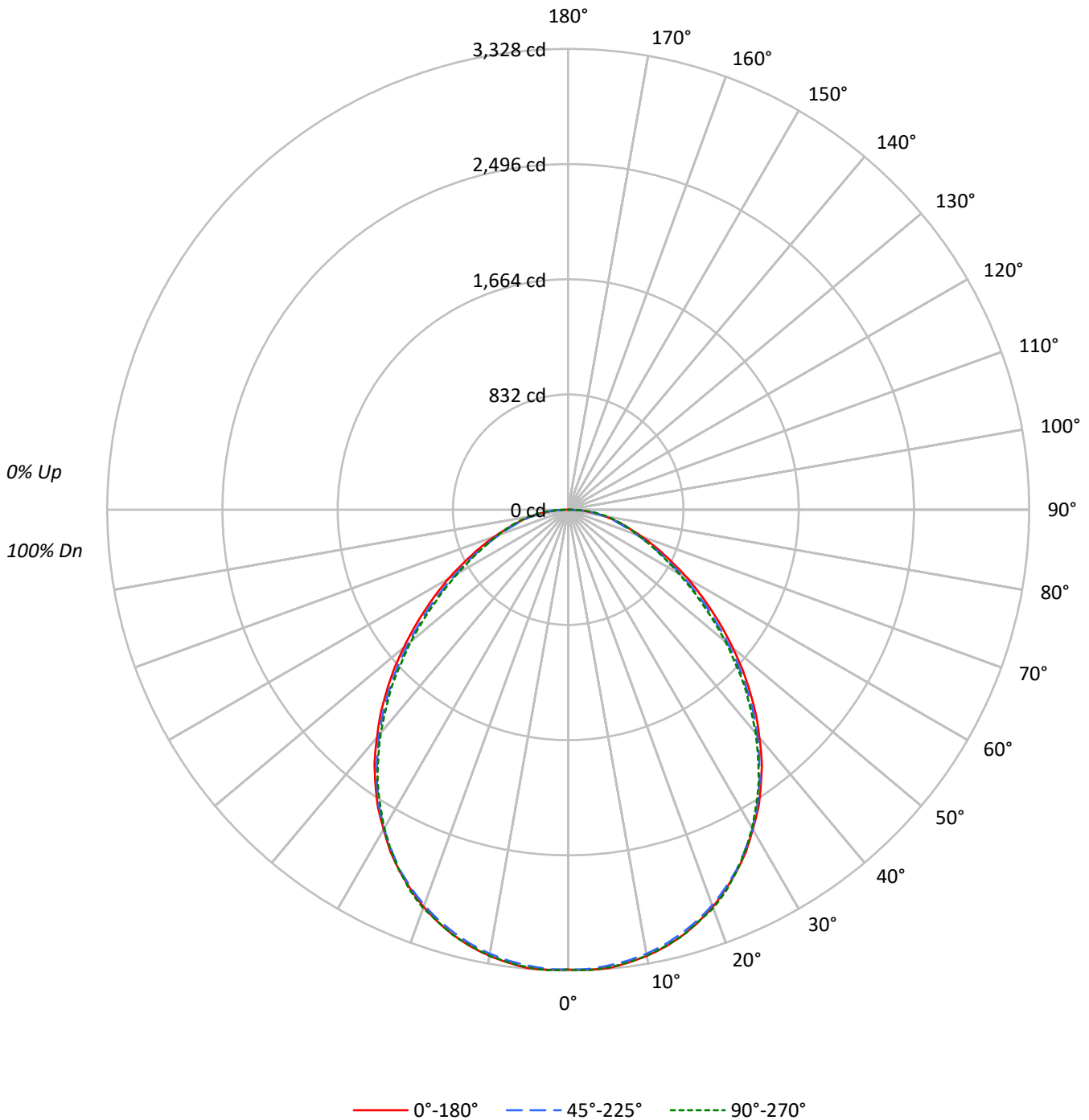
Input Watts (W): 64.263
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4468	4468	4468
5°	4489	4464	4482
10°	4470	4449	4469
15°	4435	4412	4439
20°	4370	4353	4384
25°	4276	4265	4274
30°	4141	4133	4124
35°	3984	3954	3938
40°	3771	3729	3698
45°	3528	3463	3421
50°	3242	3155	3101
55°	2957	2848	2765
60°	2685	2541	2475
65°	2419	2283	2244
70°	2215	2071	2129
75°	2070	1975	2120
80°	2053	2016	2214
85°	2093	2112	2413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	4.0
10°-20°	893.5	11.4
20°-30°	1320.1	16.9
30°-40°	1500.8	19.2
40°-50°	1401.5	17.9
50°-60°	1089.9	13.9
60°-70°	723.2	9.3
70°-80°	418.5	5.4
80°-90°	152.2	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°	2527.9	32.4
0°-40°	4028.7	51.6
0°-60°	6520.1	83.4
0°-90°	7814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3321	3321	3321	3321	3321	
5°	3323	3306	3305	3311	3318	315
15°	3184	3168	3167	3166	3187	897
25°	2880	2868	2873	2867	2879	1324
35°	2426	2414	2407	2390	2398	1514
45°	1854	1839	1820	1797	1798	1429
55°	1260	1242	1214	1182	1179	1130
65°	760	736	717	704	705	759
75°	398	388	380	397	408	426
85°	136	133	137	155	156	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3320.9	3320.9	3320.9	3320.9	3320.9
2.5°	3325.8	3316.1	3320.9	3317.3	3328.3
5°	3323.4	3306.3	3305.1	3311.2	3318.5
7.5°	3300.2	3281.9	3285.5	3285.5	3297.7
10°	3272.1	3253.8	3256.2	3257.4	3270.9
12.5°	3234.2	3215.9	3217.1	3215.9	3229.3
15°	3184.2	3168.3	3167.1	3165.8	3186.6
17.5°	3123.1	3101.1	3108.4	3109.6	3120.6
20°	3052.2	3035.1	3040.0	3038.8	3062.0
22.5°	2968.0	2955.8	2959.4	2957.0	2979.0
25°	2880.0	2867.8	2872.7	2866.6	2878.8
27.5°	2781.1	2772.5	2767.7	2764.0	2772.5
30°	2665.1	2660.2	2660.2	2644.3	2654.1
32.5°	2555.1	2539.3	2539.3	2533.2	2527.0
35°	2425.7	2413.5	2407.4	2390.3	2397.6
37.5°	2296.2	2268.1	2265.7	2252.2	2252.2
40°	2147.2	2131.3	2122.8	2108.1	2105.7
42.5°	2005.5	1989.6	1975.0	1950.6	1945.7
45°	1854.1	1839.4	1819.9	1796.7	1797.9
47.5°	1703.8	1683.1	1664.7	1636.7	1633.0
50°	1548.7	1534.1	1507.2	1482.8	1481.5
52.5°	1403.4	1380.2	1355.7	1326.4	1326.4
55°	1260.5	1242.1	1214.1	1182.3	1178.6
57.5°	1123.7	1106.6	1074.8	1051.6	1045.5
60°	997.9	973.4	944.1	924.6	919.7
62.5°	872.1	850.1	828.1	808.6	807.3
65°	759.7	736.5	717.0	703.5	704.7
67.5°	658.3	638.8	616.8	613.1	614.4
70°	563.1	542.3	526.4	535.0	541.1
72.5°	472.7	461.7	450.7	462.9	471.5
75°	398.2	388.4	379.9	397.0	407.9
77.5°	329.8	322.4	321.2	335.9	345.7
80°	265.0	256.5	260.2	277.3	285.8
82.5°	201.5	195.4	196.6	217.4	223.5
85°	135.6	133.1	136.8	155.1	156.3
87.5°	72.1	72.1	74.5	85.5	81.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)