

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: P293285

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293285
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8642.0 lumens
Efficiency: N/A
Efficacy: 134.7 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

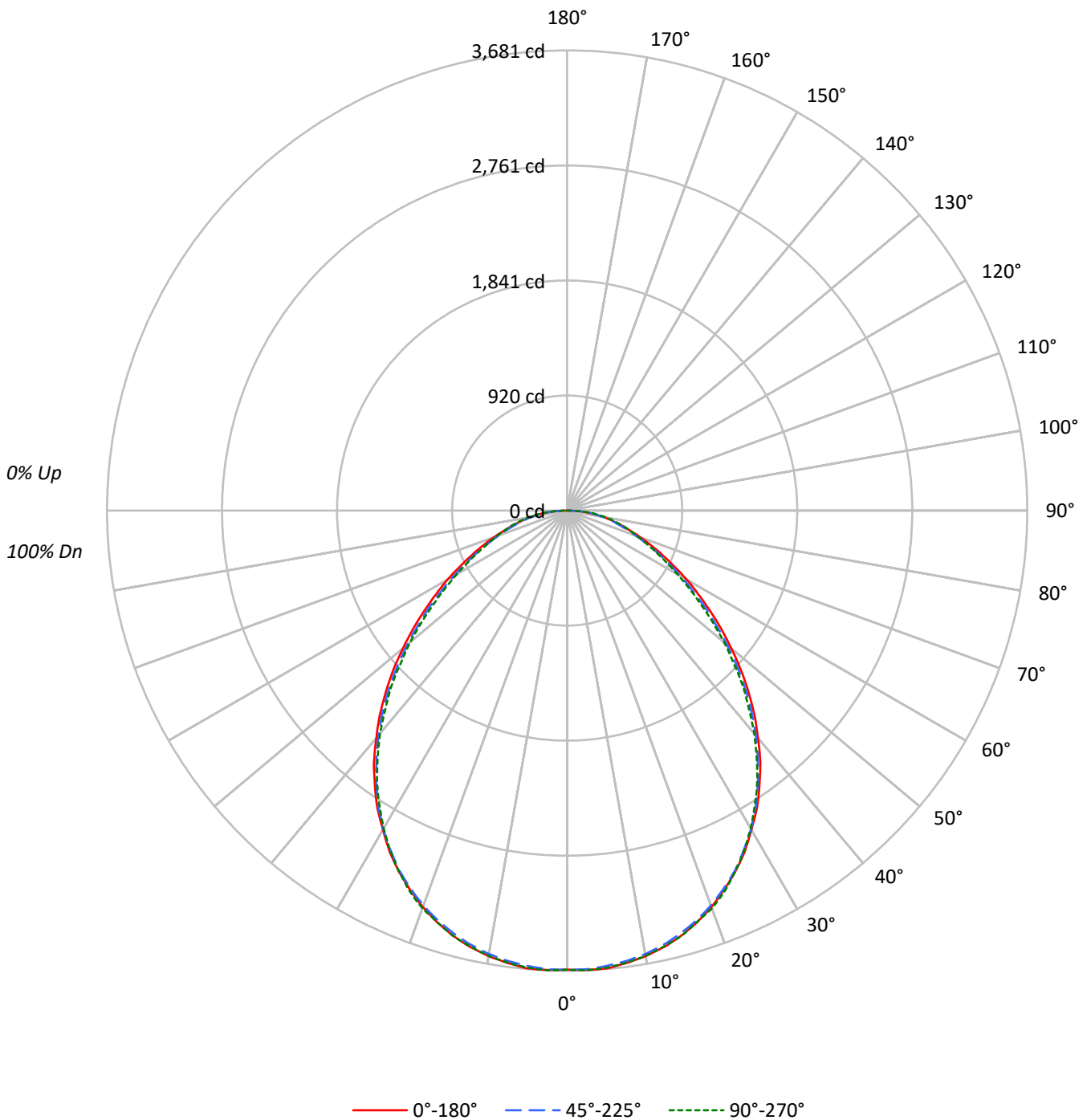
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4942	4942	4942
5°	4964	4937	4957
10°	4944	4920	4942
15°	4905	4879	4909
20°	4833	4814	4849
25°	4729	4717	4727
30°	4579	4571	4560
35°	4406	4373	4355
40°	4171	4124	4090
45°	3902	3830	3784
50°	3585	3489	3430
55°	3270	3150	3058
60°	2970	2810	2737
65°	2675	2524	2481
70°	2450	2290	2354
75°	2289	2184	2346
80°	2271	2229	2449
85°	2314	2336	2669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	4.0
10°-20°	988.2	11.4
20°-30°	1459.9	16.9
30°-40°	1659.8	19.2
40°-50°	1550.0	17.9
50°-60°	1205.4	13.9
60°-70°	799.8	9.3
70°-80°	462.9	5.4
80°-90°	168.3	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°	2795.8	32.4
0°-40°	4455.6	51.6
0°-60°	7211.0	83.4
0°-90°	8642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3673	3673	3673	3673	3673	
5°	3676	3657	3655	3662	3670	349
15°	3522	3504	3503	3501	3524	992
25°	3185	3172	3177	3170	3184	1464
35°	2683	2669	2662	2644	2652	1675
45°	2050	2034	2013	1987	1988	1580
55°	1394	1374	1343	1308	1304	1250
65°	840	814	793	778	779	840
75°	440	430	420	439	451	471
85°	150	147	151	172	173	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3672.8	3672.8	3672.8	3672.8	3672.8
2.5°	3678.3	3667.4	3672.8	3668.8	3681.0
5°	3675.6	3656.6	3655.3	3662.0	3670.1
7.5°	3649.9	3629.6	3633.7	3633.7	3647.2
10°	3618.8	3598.6	3601.3	3602.6	3617.5
12.5°	3576.9	3556.7	3558.0	3556.7	3571.5
15°	3521.6	3504.0	3502.6	3501.3	3524.3
17.5°	3454.0	3429.7	3437.8	3439.2	3451.3
20°	3375.7	3356.8	3362.2	3360.8	3386.5
22.5°	3282.5	3269.0	3273.0	3270.3	3294.6
25°	3185.2	3171.7	3177.1	3170.3	3183.9
27.5°	3075.8	3066.3	3060.9	3056.9	3066.3
30°	2947.5	2942.1	2942.1	2924.5	2935.3
32.5°	2825.9	2808.3	2808.3	2801.6	2794.8
35°	2682.7	2669.2	2662.4	2643.5	2651.6
37.5°	2539.5	2508.5	2505.8	2490.9	2490.9
40°	2374.7	2357.2	2347.7	2331.5	2328.8
42.5°	2218.0	2200.5	2184.3	2157.2	2151.8
45°	2050.5	2034.3	2012.7	1987.0	1988.4
47.5°	1884.4	1861.4	1841.2	1810.1	1806.0
50°	1712.8	1696.6	1666.9	1639.9	1638.5
52.5°	1552.1	1526.4	1499.4	1467.0	1467.0
55°	1394.0	1373.8	1342.7	1307.6	1303.5
57.5°	1242.7	1223.8	1188.7	1163.0	1156.3
60°	1103.6	1076.6	1044.2	1022.6	1017.2
62.5°	964.5	940.2	915.8	894.2	892.9
65°	840.2	814.5	792.9	778.1	779.4
67.5°	728.1	706.5	682.2	678.1	679.5
70°	622.7	599.8	582.2	591.7	598.4
72.5°	522.8	510.6	498.4	512.0	521.4
75°	440.4	429.6	420.1	439.0	451.2
77.5°	364.7	356.6	355.3	371.5	382.3
80°	293.1	283.7	287.7	306.6	316.1
82.5°	222.9	216.1	217.5	240.4	247.2
85°	149.9	147.2	151.3	171.6	172.9
87.5°	79.7	79.7	82.4	94.6	90.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)