

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: P293265

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293265
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-LD5-64-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6589.0 lumens
Efficiency: N/A
Efficacy: 140.0 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

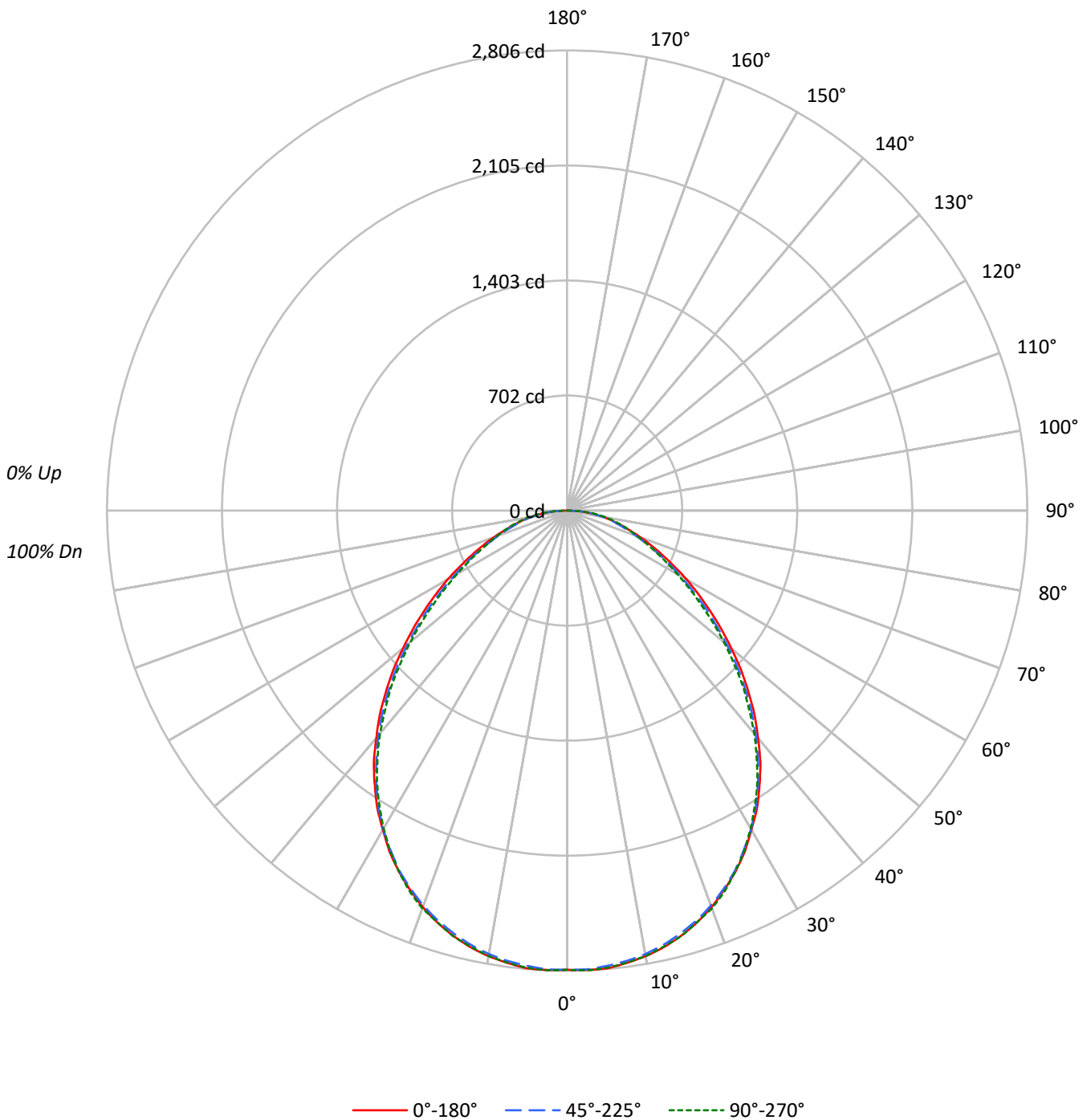
Input Watts (W): 47.058
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3768	3768	3768
5°	3785	3764	3779
10°	3770	3751	3768
15°	3740	3720	3743
20°	3685	3670	3697
25°	3605	3596	3604
30°	3491	3485	3477
35°	3360	3334	3321
40°	3180	3144	3119
45°	2975	2920	2885
50°	2734	2660	2615
55°	2493	2401	2331
60°	2264	2142	2087
65°	2039	1925	1892
70°	1868	1746	1795
75°	1746	1665	1788
80°	1732	1700	1867
85°	1765	1780	2035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	4.0
10°-20°	753.5	11.4
20°-30°	1113.1	16.9
30°-40°	1265.5	19.2
40°-50°	1181.8	17.9
50°-60°	919.1	13.9
60°-70°	609.8	9.3
70°-80°	352.9	5.4
80°-90°	128.3	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°	2131.6	32.4
0°-40°	3397.1	51.6
0°-60°	5498.0	83.4
0°-90°	6589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2800	2800	2800	2800	2800	
5°	2802	2788	2787	2792	2798	266
15°	2685	2672	2671	2670	2687	756
25°	2428	2418	2422	2417	2428	1117
35°	2045	2035	2030	2016	2022	1277
45°	1563	1551	1535	1515	1516	1205
55°	1063	1047	1024	997	994	953
65°	641	621	605	593	594	640
75°	336	328	320	335	344	359
85°	114	112	115	131	132	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2800.3	2800.3	2800.3	2800.3	2800.3
2.5°	2804.4	2796.2	2800.3	2797.2	2806.5
5°	2802.4	2788.0	2786.9	2792.1	2798.3
7.5°	2782.8	2767.4	2770.5	2770.5	2780.8
10°	2759.1	2743.7	2745.7	2746.8	2758.1
12.5°	2727.2	2711.8	2712.8	2711.8	2723.1
15°	2685.0	2671.6	2670.6	2669.5	2687.0
17.5°	2633.5	2614.9	2621.1	2622.1	2631.4
20°	2573.7	2559.3	2563.4	2562.4	2582.0
22.5°	2502.7	2492.4	2495.5	2493.4	2511.9
25°	2428.5	2418.2	2422.3	2417.2	2427.5
27.5°	2345.1	2337.9	2333.8	2330.7	2337.9
30°	2247.3	2243.1	2243.1	2229.8	2238.0
32.5°	2154.6	2141.2	2141.2	2136.0	2130.9
35°	2045.4	2035.1	2030.0	2015.5	2021.7
37.5°	1936.2	1912.5	1910.5	1899.2	1899.2
40°	1810.6	1797.2	1790.0	1777.6	1775.6
42.5°	1691.1	1677.7	1665.4	1644.8	1640.6
45°	1563.4	1551.0	1534.6	1515.0	1516.0
47.5°	1436.7	1419.2	1403.8	1380.1	1377.0
50°	1305.9	1293.6	1270.9	1250.3	1249.3
52.5°	1183.4	1163.8	1143.2	1118.5	1118.5
55°	1062.9	1047.4	1023.7	997.0	993.9
57.5°	947.5	933.1	906.3	886.8	881.6
60°	841.4	820.8	796.1	779.6	775.5
62.5°	735.4	716.8	698.3	681.8	680.8
65°	640.6	621.0	604.6	593.2	594.3
67.5°	555.1	538.6	520.1	517.0	518.0
70°	474.8	457.3	443.9	451.1	456.2
72.5°	398.6	389.3	380.0	390.3	397.5
75°	335.8	327.5	320.3	334.7	344.0
77.5°	278.1	271.9	270.9	283.2	291.5
80°	223.5	216.3	219.4	233.8	241.0
82.5°	169.9	164.8	165.8	183.3	188.5
85°	114.3	112.3	115.3	130.8	131.8
87.5°	60.8	60.8	62.8	72.1	69.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)