

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: P293908

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6508.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

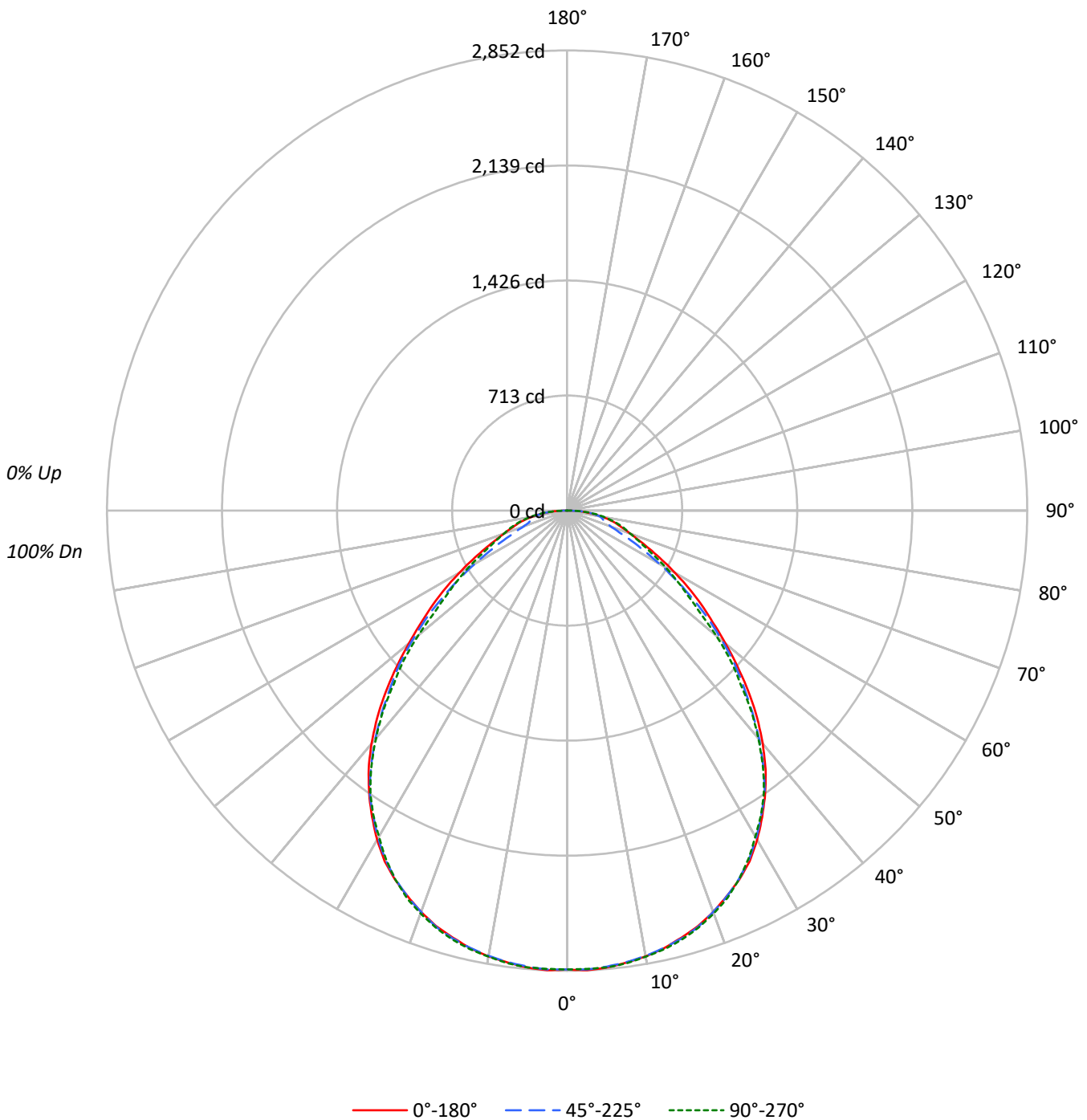
Input Watts (W): 62.217
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3826	3826	3826
5°	3840	3831	3838
10°	3834	3828	3835
15°	3816	3823	3833
20°	3790	3790	3804
25°	3747	3740	3742
30°	3659	3640	3623
35°	3515	3505	3492
40°	3312	3251	3237
45°	3029	2946	2892
50°	2678	2625	2523
55°	2382	2220	2134
60°	2074	1776	1904
65°	1791	1377	1684
70°	1633	1126	1629
75°	1647	1214	1731
80°	1715	1581	1825
85°	1786	1880	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	4.1
10°-20°	773.7	11.9
20°-30°	1158.1	17.8
30°-40°	1323.3	20.3
40°-50°	1196.4	18.4
50°-60°	860.7	13.2
60°-70°	499.0	7.7
70°-80°	296.0	4.5
80°-90°	131.1	2.0
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°	2201.5	33.8
0°-40°	3524.8	54.2
0°-60°	5581.9	85.8
0°-90°	6508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2844	2844	2844	2844	2844	
5°	2843	2839	2837	2833	2842	270
15°	2739	2744	2744	2741	2751	773
25°	2524	2521	2519	2514	2521	1160
35°	2140	2130	2134	2108	2126	1334
45°	1592	1564	1548	1534	1520	1223
55°	1015	996	946	922	910	908
65°	562	500	432	483	529	568
75°	317	265	234	288	333	335
85°	116	125	122	140	131	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2843.8	2843.8	2843.8	2843.8	2843.8
2.5°	2851.9	2841.7	2846.8	2843.8	2842.8
5°	2842.8	2838.7	2836.7	2832.6	2841.7
7.5°	2824.5	2821.4	2822.4	2823.5	2829.6
10°	2806.2	2801.1	2802.1	2804.2	2807.2
12.5°	2777.8	2774.7	2775.7	2777.8	2784.9
15°	2739.2	2744.3	2744.3	2741.2	2751.4
17.5°	2700.6	2699.6	2704.7	2695.5	2709.8
20°	2646.8	2647.8	2646.8	2647.8	2657.0
22.5°	2585.9	2591.0	2587.9	2587.9	2598.1
25°	2524.0	2520.9	2518.9	2513.8	2520.9
27.5°	2449.8	2443.8	2438.7	2428.5	2433.6
30°	2355.4	2356.4	2343.2	2334.1	2332.1
32.5°	2249.8	2249.8	2237.7	2230.5	2236.6
35°	2140.2	2130.0	2134.1	2107.7	2126.0
37.5°	2021.4	2005.2	1996.0	1986.9	1993.0
40°	1885.4	1864.0	1850.8	1832.6	1842.7
42.5°	1742.2	1715.8	1699.6	1686.4	1690.4
45°	1591.9	1564.5	1548.3	1534.1	1519.9
47.5°	1433.6	1416.3	1408.2	1389.9	1373.7
50°	1279.2	1273.1	1253.9	1238.6	1205.1
52.5°	1138.1	1133.0	1102.6	1077.2	1034.6
55°	1015.3	996.0	946.2	921.9	909.7
57.5°	890.4	858.9	799.0	796.0	804.1
60°	770.6	732.0	659.9	676.2	707.6
62.5°	662.0	604.1	535.0	573.6	611.2
65°	562.5	499.5	432.5	483.3	529.0
67.5°	480.2	417.3	348.2	416.3	469.1
70°	415.2	351.3	286.3	364.5	414.2
72.5°	361.4	303.6	249.8	323.9	375.6
75°	316.8	265.0	233.5	288.3	333.0
77.5°	272.1	230.5	223.4	256.9	284.3
80°	221.3	202.0	204.1	225.4	235.5
82.5°	165.5	166.5	171.6	188.8	184.8
85°	115.7	124.9	121.8	140.1	131.0
87.5°	64.0	70.1	66.0	80.2	72.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)