

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: P293834

Luminaire Tested: **24GR-LD5-85-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293834
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-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7757.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

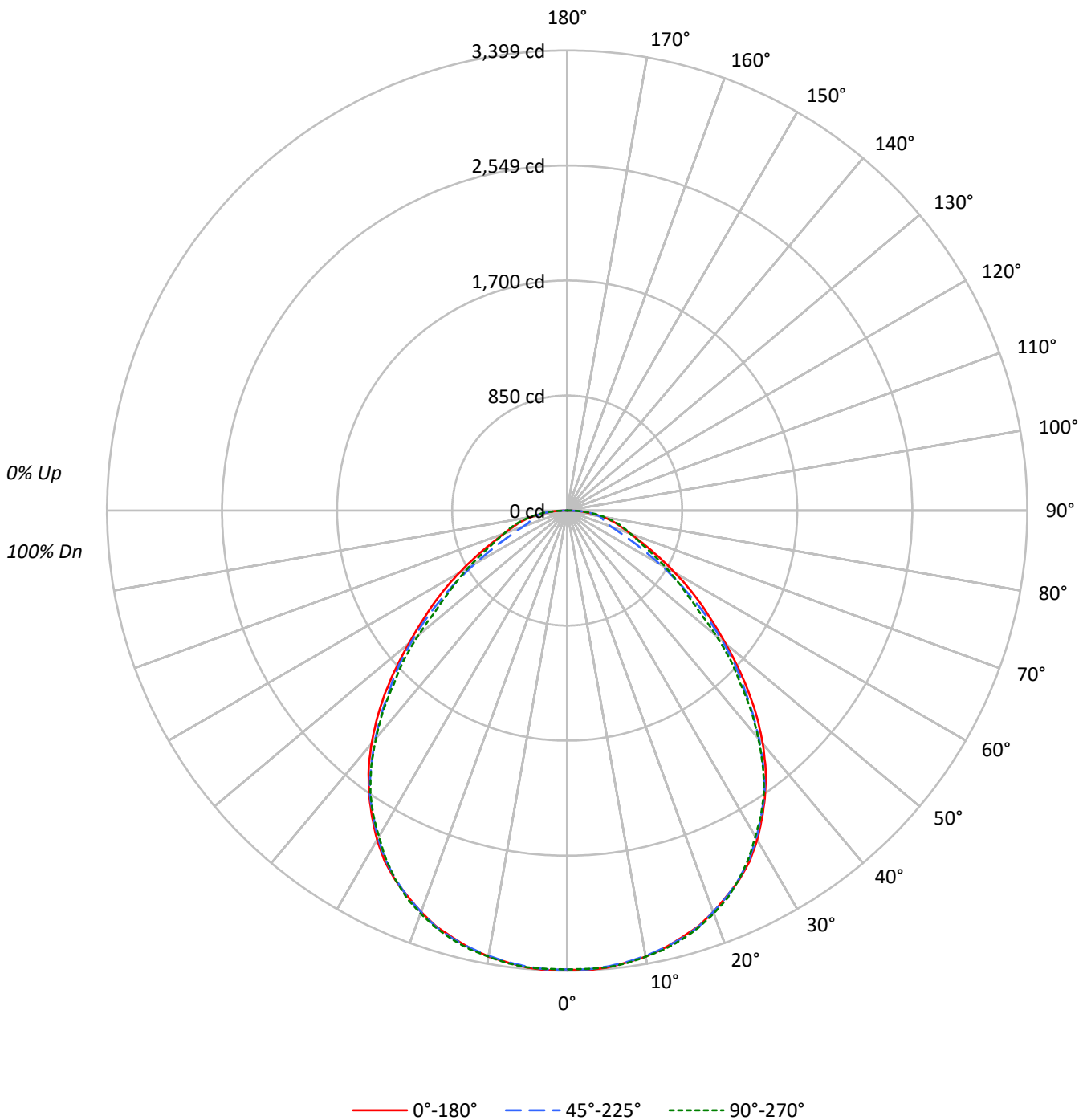
Input Watts (W): 65.023926
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4561	4561	4561
5°	4576	4567	4575
10°	4570	4563	4571
15°	4548	4556	4568
20°	4517	4517	4534
25°	4466	4457	4461
30°	4362	4339	4318
35°	4190	4178	4162
40°	3947	3875	3858
45°	3611	3511	3447
50°	3192	3128	3007
55°	2839	2646	2544
60°	2472	2117	2270
65°	2134	1641	2007
70°	1947	1343	1942
75°	1963	1447	2063
80°	2044	1884	2175
85°	2130	2242	2410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	4.1
10°-20°	922.1	11.9
20°-30°	1380.3	17.8
30°-40°	1577.3	20.3
40°-50°	1426.0	18.4
50°-60°	1025.9	13.2
60°-70°	594.8	7.7
70°-80°	352.8	4.5
80°-90°	156.3	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°	2624.0	33.8
0°-40°	4201.3	54.2
0°-60°	6653.2	85.8
0°-90°	7757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3390	3390	3390	3390	3390	
5°	3388	3384	3381	3376	3387	322
15°	3265	3271	3271	3267	3279	922
25°	3008	3005	3002	2996	3005	1383
35°	2551	2539	2544	2512	2534	1590
45°	1898	1865	1845	1828	1812	1458
55°	1210	1187	1128	1099	1084	1083
65°	670	595	516	576	630	677
75°	378	316	278	344	397	399
85°	138	149	145	167	156	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3389.5	3389.5	3389.5	3389.5	3389.5
2.5°	3399.2	3387.1	3393.2	3389.5	3388.3
5°	3388.3	3383.5	3381.1	3376.2	3387.1
7.5°	3366.5	3362.9	3364.1	3365.3	3372.6
10°	3344.8	3338.7	3339.9	3342.3	3346.0
12.5°	3310.9	3307.3	3308.5	3310.9	3319.4
15°	3264.9	3270.9	3270.9	3267.3	3279.4
17.5°	3218.9	3217.7	3223.8	3212.9	3229.8
20°	3154.8	3156.0	3154.8	3156.0	3166.9
22.5°	3082.2	3088.2	3084.6	3084.6	3096.7
25°	3008.4	3004.7	3002.3	2996.3	3004.7
27.5°	2920.0	2912.8	2906.7	2894.6	2900.7
30°	2807.5	2808.7	2793.0	2782.1	2779.6
32.5°	2681.6	2681.6	2667.1	2658.6	2665.9
35°	2550.9	2538.8	2543.7	2512.2	2534.0
37.5°	2409.3	2390.0	2379.1	2368.2	2375.5
40°	2247.2	2221.8	2206.0	2184.3	2196.4
42.5°	2076.6	2045.1	2025.7	2010.0	2014.8
45°	1897.5	1864.8	1845.4	1828.5	1811.5
47.5°	1708.7	1688.1	1678.4	1656.7	1637.3
50°	1524.7	1517.5	1494.5	1476.3	1436.4
52.5°	1356.5	1350.5	1314.2	1283.9	1233.1
55°	1210.1	1187.1	1127.8	1098.8	1084.3
57.5°	1061.3	1023.8	952.4	948.7	958.4
60°	918.5	872.5	786.6	805.9	843.5
62.5°	789.0	720.0	637.7	683.7	728.5
65°	670.4	595.4	515.5	576.0	630.5
67.5°	572.4	497.4	415.1	496.1	559.1
70°	494.9	418.7	341.3	434.4	493.7
72.5°	430.8	361.8	297.7	386.0	447.7
75°	377.6	315.8	278.3	343.7	396.9
77.5°	324.3	274.7	266.2	306.2	338.8
80°	263.8	240.8	243.2	268.6	280.7
82.5°	197.2	198.5	204.5	225.1	220.2
85°	138.0	148.8	145.2	167.0	156.1
87.5°	76.2	83.5	78.7	95.6	85.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)