

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: P293785

Luminaire Tested: **24GR-LD5-85-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293785
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-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8290.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

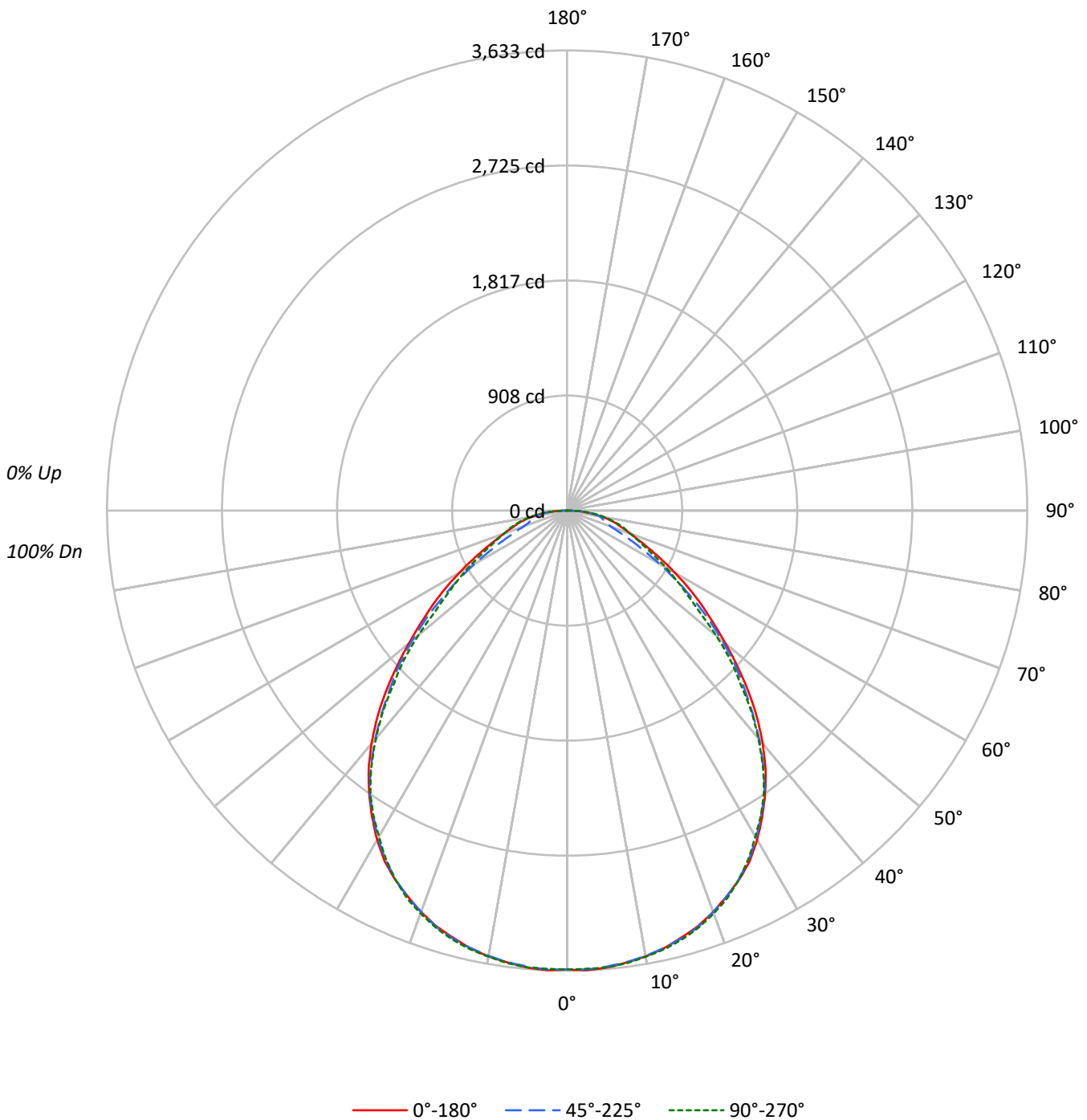
Input Watts (W): 63.147
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4874	4874	4874
5°	4891	4880	4889
10°	4884	4877	4886
15°	4860	4869	4882
20°	4827	4827	4846
25°	4773	4763	4767
30°	4662	4637	4615
35°	4478	4465	4448
40°	4218	4141	4123
45°	3859	3753	3684
50°	3411	3343	3213
55°	3034	2827	2718
60°	2641	2262	2426
65°	2281	1754	2145
70°	2081	1435	2076
75°	2098	1547	2205
80°	2184	2014	2325
85°	2276	2396	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	4.1
10°-20°	985.5	11.9
20°-30°	1475.2	17.8
30°-40°	1685.6	20.3
40°-50°	1524.0	18.4
50°-60°	1096.4	13.2
60°-70°	635.6	7.7
70°-80°	377.1	4.5
80°-90°	167.0	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°	2804.3	33.8
0°-40°	4489.9	54.2
0°-60°	7110.3	85.8
0°-90°	8290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3622	3622	3622	3622	3622	
5°	3621	3616	3613	3608	3620	344
15°	3489	3496	3496	3492	3505	985
25°	3215	3211	3209	3202	3211	1478
35°	2726	2713	2718	2685	2708	1700
45°	2028	1993	1972	1954	1936	1558
55°	1293	1269	1205	1174	1159	1157
65°	716	636	551	616	674	723
75°	404	338	298	367	424	426
85°	147	159	155	178	167	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3622.4	3622.4	3622.4	3622.4	3622.4
2.5°	3632.8	3619.9	3626.3	3622.4	3621.1
5°	3621.1	3616.0	3613.4	3608.2	3619.9
7.5°	3597.9	3594.0	3595.3	3596.6	3604.3
10°	3574.6	3568.1	3569.4	3572.0	3575.9
12.5°	3538.4	3534.5	3535.8	3538.4	3547.4
15°	3489.2	3495.7	3495.7	3491.8	3504.8
17.5°	3440.1	3438.8	3445.3	3433.6	3451.7
20°	3371.5	3372.8	3371.5	3372.8	3384.5
22.5°	3294.0	3300.4	3296.5	3296.5	3309.5
25°	3215.1	3211.2	3208.6	3202.1	3211.2
27.5°	3120.7	3112.9	3106.4	3093.5	3100.0
30°	3000.4	3001.7	2984.9	2973.2	2970.6
32.5°	2865.9	2865.9	2850.4	2841.3	2849.1
35°	2726.2	2713.3	2718.4	2684.8	2708.1
37.5°	2574.9	2554.2	2542.6	2530.9	2538.7
40°	2401.6	2374.4	2357.6	2334.3	2347.3
42.5°	2219.2	2185.6	2164.9	2148.1	2153.3
45°	2027.8	1992.9	1972.2	1954.1	1936.0
47.5°	1826.1	1804.1	1793.8	1770.5	1749.8
50°	1629.5	1621.8	1597.2	1577.8	1535.1
52.5°	1449.8	1443.3	1404.5	1372.2	1317.8
55°	1293.3	1268.7	1205.3	1174.3	1158.8
57.5°	1134.2	1094.1	1017.8	1013.9	1024.3
60°	981.6	932.4	840.6	861.3	901.4
62.5°	843.2	769.5	681.6	730.7	778.5
65°	716.5	636.3	550.9	615.6	673.8
67.5°	611.7	531.5	443.6	530.2	597.5
70°	528.9	447.5	364.7	464.3	527.7
72.5°	460.4	386.7	318.1	412.6	478.5
75°	403.5	337.5	297.5	367.3	424.2
77.5°	346.6	293.6	284.5	327.2	362.1
80°	281.9	257.4	259.9	287.1	300.0
82.5°	210.8	212.1	218.6	240.5	235.4
85°	147.4	159.1	155.2	178.5	166.8
87.5°	81.5	89.2	84.1	102.2	91.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)