

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: P219198

Luminaire Tested: **24GR-LD5-90-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-A125-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8429.8 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

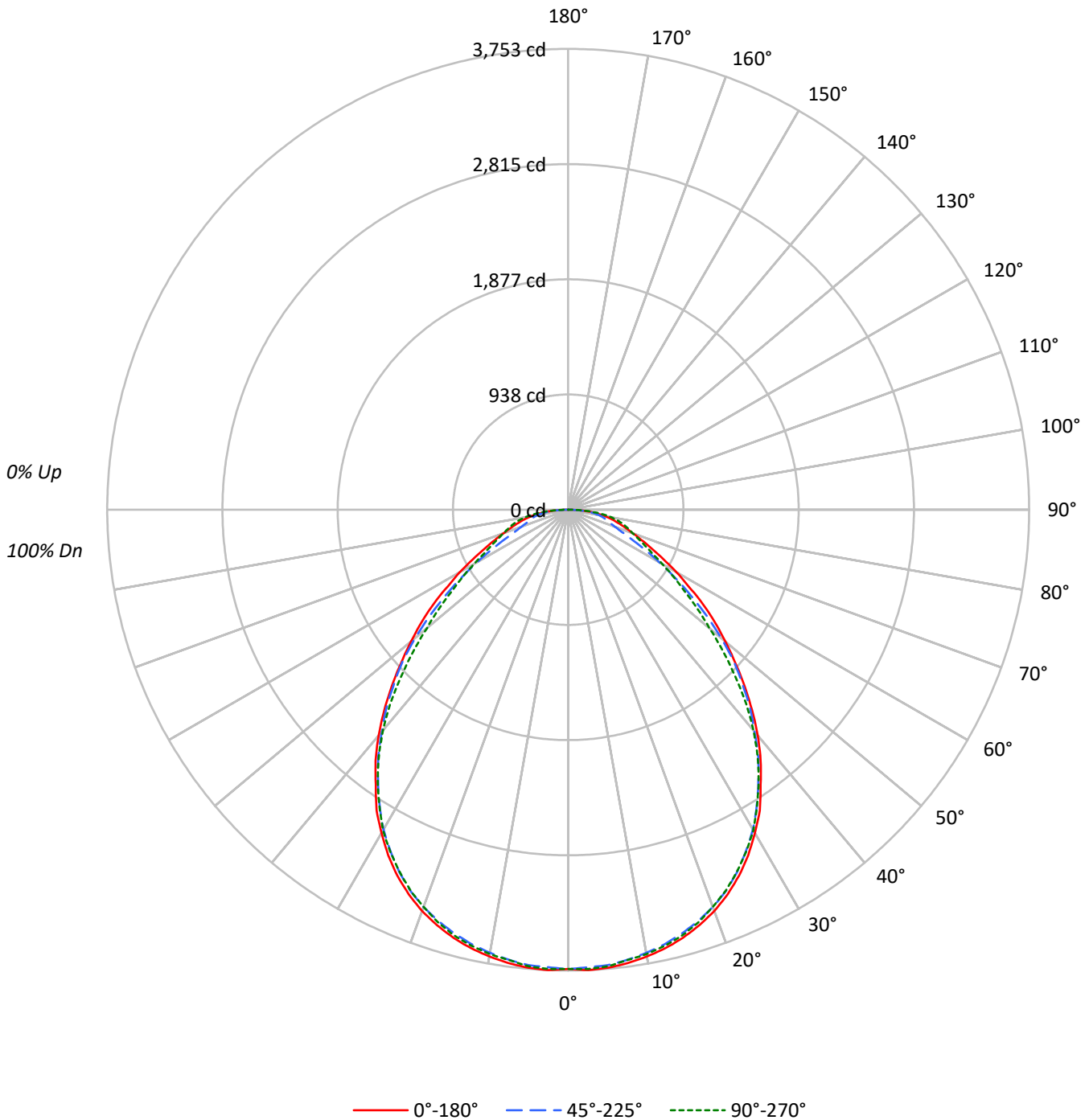
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219198

CATALOG NUMBER: 24GR-LD5-90-A125-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P219198

CATALOG NUMBER: 24GR-LD5-90-A125-UNV-L950-CD1-U

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5729	5729	5729
5°	5756	5724	5738
10°	5746	5700	5716
15°	5724	5666	5691
20°	5670	5612	5610
25°	5559	5500	5495
30°	5376	5320	5332
35°	5106	5048	5055
40°	4801	4718	4689
45°	4401	4341	4169
50°	3978	3870	3578
55°	3571	3252	3085
60°	3128	2617	2713
65°	2728	2058	2497
70°	2496	1796	2496
75°	2497	1911	2751
80°	2710	2252	3136
85°	2975	2541	3365



TEST NUMBER: P219198

CATALOG NUMBER: 24GR-LD5-90-A125-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	4.2
10°-20°	1010.8	12.0
20°-30°	1498.8	17.8
30°-40°	1690.8	20.1
40°-50°	1531.4	18.2
50°-60°	1104.8	13.1
60°-70°	659.6	7.8
70°-80°	407.7	4.8
80°-90°	171.8	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°	2863.7	34.0
0°-40°	4554.5	54.0
0°-60°	7190.7	85.3
0°-90°	8429.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8429.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3740	3740	3740	3740	3740	
5°	3744	3739	3723	3719	3732	356
15°	3610	3588	3574	3575	3589	1018
25°	3290	3271	3254	3243	3252	1511
35°	2731	2727	2700	2701	2704	1709
45°	2032	2019	2004	1955	1925	1566
55°	1337	1296	1218	1158	1155	1194
65°	753	663	568	645	689	757
75°	422	366	323	402	465	451
85°	169	148	145	189	192	177
90°	0	0	0	0	0	



TEST NUMBER: P219198

CATALOG NUMBER: 24GR-LD5-90-A125-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3740.2	3740.2	3740.2	3740.2	3740.2
2.5°	3753.2	3742.7	3729.7	3737.6	3744.1
5°	3744.1	3738.9	3723.3	3719.4	3732.4
7.5°	3724.5	3711.5	3697.2	3703.7	3698.5
10°	3694.6	3682.9	3664.7	3665.9	3675.0
12.5°	3658.1	3643.8	3624.3	3629.4	3637.3
15°	3610.0	3587.8	3573.5	3574.8	3589.1
17.5°	3548.7	3531.8	3513.6	3517.5	3524.0
20°	3478.4	3469.3	3443.3	3435.4	3442.0
22.5°	3389.8	3372.9	3358.6	3354.7	3356.0
25°	3289.6	3271.4	3254.4	3242.7	3251.8
27.5°	3172.4	3156.8	3134.6	3130.7	3138.5
30°	3039.6	3027.8	3008.3	3003.1	3014.8
32.5°	2904.1	2884.6	2857.2	2857.2	2859.9
35°	2730.9	2727.0	2699.6	2701.0	2703.5
37.5°	2574.7	2556.4	2540.8	2525.2	2533.0
40°	2401.4	2380.6	2359.7	2349.3	2345.4
42.5°	2215.2	2199.6	2190.5	2152.7	2143.6
45°	2031.6	2018.6	2004.2	1954.8	1924.7
47.5°	1844.0	1841.5	1829.7	1742.5	1712.5
50°	1669.6	1665.7	1624.0	1531.5	1501.5
52.5°	1504.1	1478.1	1423.4	1332.2	1327.1
55°	1337.4	1295.7	1217.7	1157.7	1155.2
57.5°	1161.6	1112.1	1032.8	1000.2	1017.1
60°	1021.0	945.5	854.3	858.2	885.5
62.5°	875.1	790.5	700.6	739.7	772.2
65°	752.8	662.8	567.8	644.6	688.9
67.5°	645.9	562.6	471.5	574.3	617.3
70°	557.4	489.7	401.1	509.2	557.4
72.5°	487.0	424.5	355.5	457.1	513.1
75°	422.0	365.9	323.0	402.4	464.9
77.5°	365.9	311.2	291.7	355.5	416.7
80°	307.3	257.9	255.3	309.9	355.5
82.5°	239.6	205.8	205.8	259.2	286.5
85°	169.3	148.4	144.6	188.8	191.5
87.5°	87.3	83.4	75.5	99.0	99.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)