

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: P293803

Luminaire Tested: **24GR-LD5-38-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293803
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-LD5-38-A125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3539.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

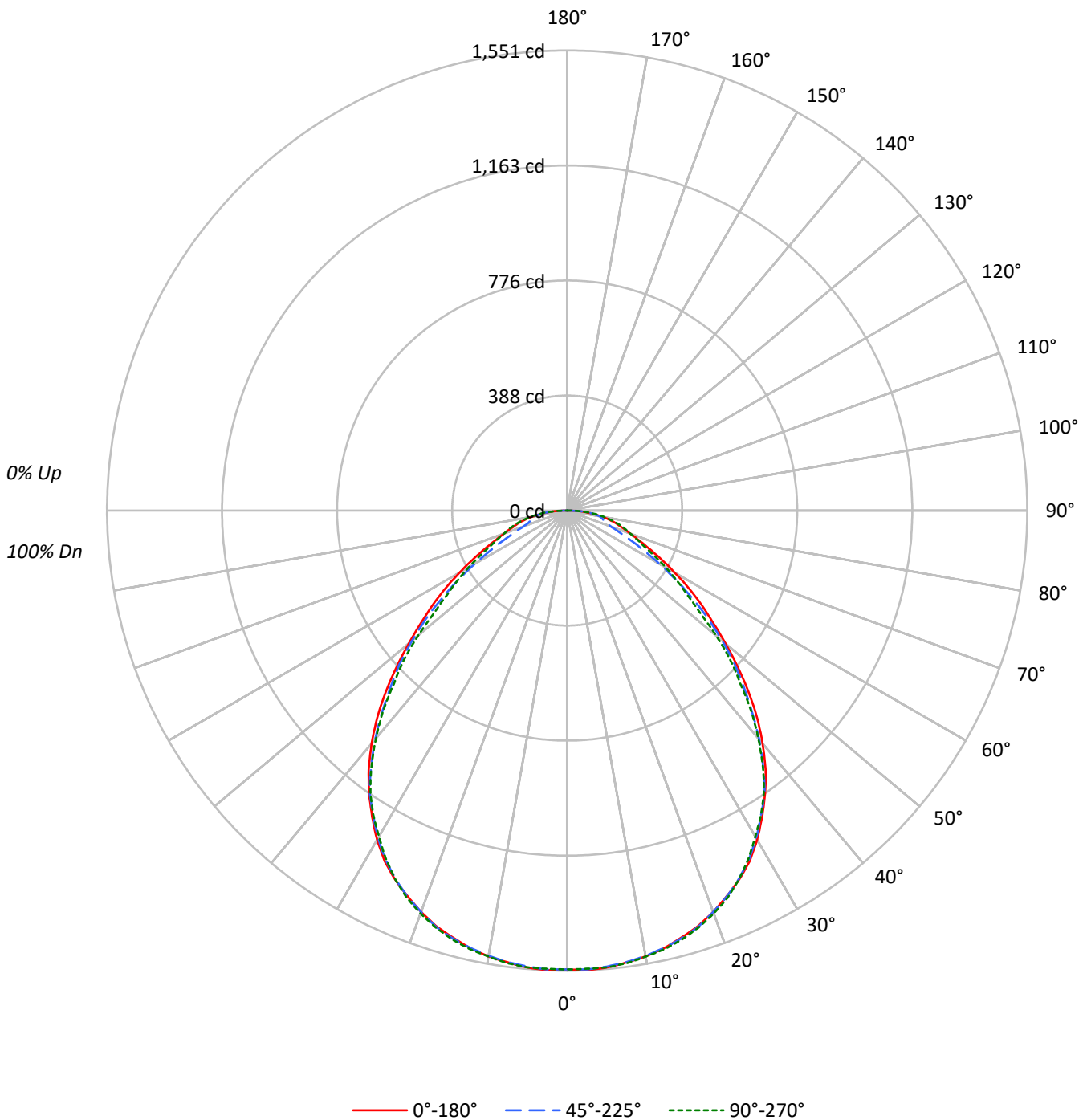
Input Watts (W): 26.049114
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2081	2081	2081
5°	2088	2083	2087
10°	2085	2082	2086
15°	2075	2079	2084
20°	2061	2061	2069
25°	2038	2033	2035
30°	1990	1980	1970
35°	1912	1906	1899
40°	1801	1768	1760
45°	1647	1602	1573
50°	1456	1427	1372
55°	1295	1207	1160
60°	1128	966	1035
65°	974	749	916
70°	888	613	886
75°	896	660	941
80°	933	860	993
85°	971	1024	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	4.1
10°-20°	420.7	11.9
20°-30°	629.7	17.8
30°-40°	719.6	20.3
40°-50°	650.6	18.4
50°-60°	468.1	13.2
60°-70°	271.4	7.7
70°-80°	161.0	4.5
80°-90°	71.3	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°	1197.2	33.8
0°-40°	1916.8	54.2
0°-60°	3035.4	85.8
0°-90°	3539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1546	1544	1543	1540	1545	147
15°	1490	1492	1492	1491	1496	421
25°	1372	1371	1370	1367	1371	631
35°	1164	1158	1160	1146	1156	726
45°	866	851	842	834	826	665
55°	552	542	515	501	495	494
65°	306	272	235	263	288	309
75°	172	144	127	157	181	182
85°	63	68	66	76	71	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1546.4	1546.4	1546.4	1546.4	1546.4
2.5°	1550.8	1545.3	1548.1	1546.4	1545.9
5°	1545.9	1543.7	1542.6	1540.3	1545.3
7.5°	1535.9	1534.3	1534.8	1535.4	1538.7
10°	1526.0	1523.2	1523.8	1524.9	1526.5
12.5°	1510.5	1508.9	1509.4	1510.5	1514.4
15°	1489.6	1492.3	1492.3	1490.7	1496.2
17.5°	1468.6	1468.0	1470.8	1465.8	1473.5
20°	1439.3	1439.9	1439.3	1439.9	1444.8
22.5°	1406.2	1408.9	1407.3	1407.3	1412.8
25°	1372.5	1370.9	1369.7	1367.0	1370.9
27.5°	1332.2	1328.9	1326.1	1320.6	1323.4
30°	1280.9	1281.4	1274.2	1269.3	1268.2
32.5°	1223.4	1223.4	1216.8	1213.0	1216.3
35°	1163.8	1158.3	1160.5	1146.2	1156.1
37.5°	1099.2	1090.4	1085.4	1080.5	1083.8
40°	1025.2	1013.6	1006.5	996.5	1002.1
42.5°	947.4	933.0	924.2	917.0	919.2
45°	865.7	850.8	841.9	834.2	826.5
47.5°	779.6	770.2	765.8	755.8	747.0
50°	695.6	692.3	681.8	673.6	655.3
52.5°	618.9	616.1	599.6	585.8	562.6
55°	552.1	541.6	514.6	501.3	494.7
57.5°	484.2	467.1	434.5	432.8	437.3
60°	419.0	398.1	358.9	367.7	384.8
62.5°	360.0	328.5	291.0	311.9	332.4
65°	305.9	271.6	235.2	262.8	287.6
67.5°	261.1	226.9	189.4	226.4	255.1
70°	225.8	191.0	155.7	198.2	225.3
72.5°	196.5	165.1	135.8	176.1	204.3
75°	172.3	144.1	127.0	156.8	181.1
77.5°	148.0	125.3	121.5	139.7	154.6
80°	120.4	109.9	111.0	122.6	128.1
82.5°	90.0	90.5	93.3	102.7	100.5
85°	62.9	67.9	66.3	76.2	71.2
87.5°	34.8	38.1	35.9	43.6	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)