

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: P293802

Luminaire Tested: **24GR-LD5-38-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293802
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3277.0 lumens
Efficiency: N/A
Efficacy: 126.7 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

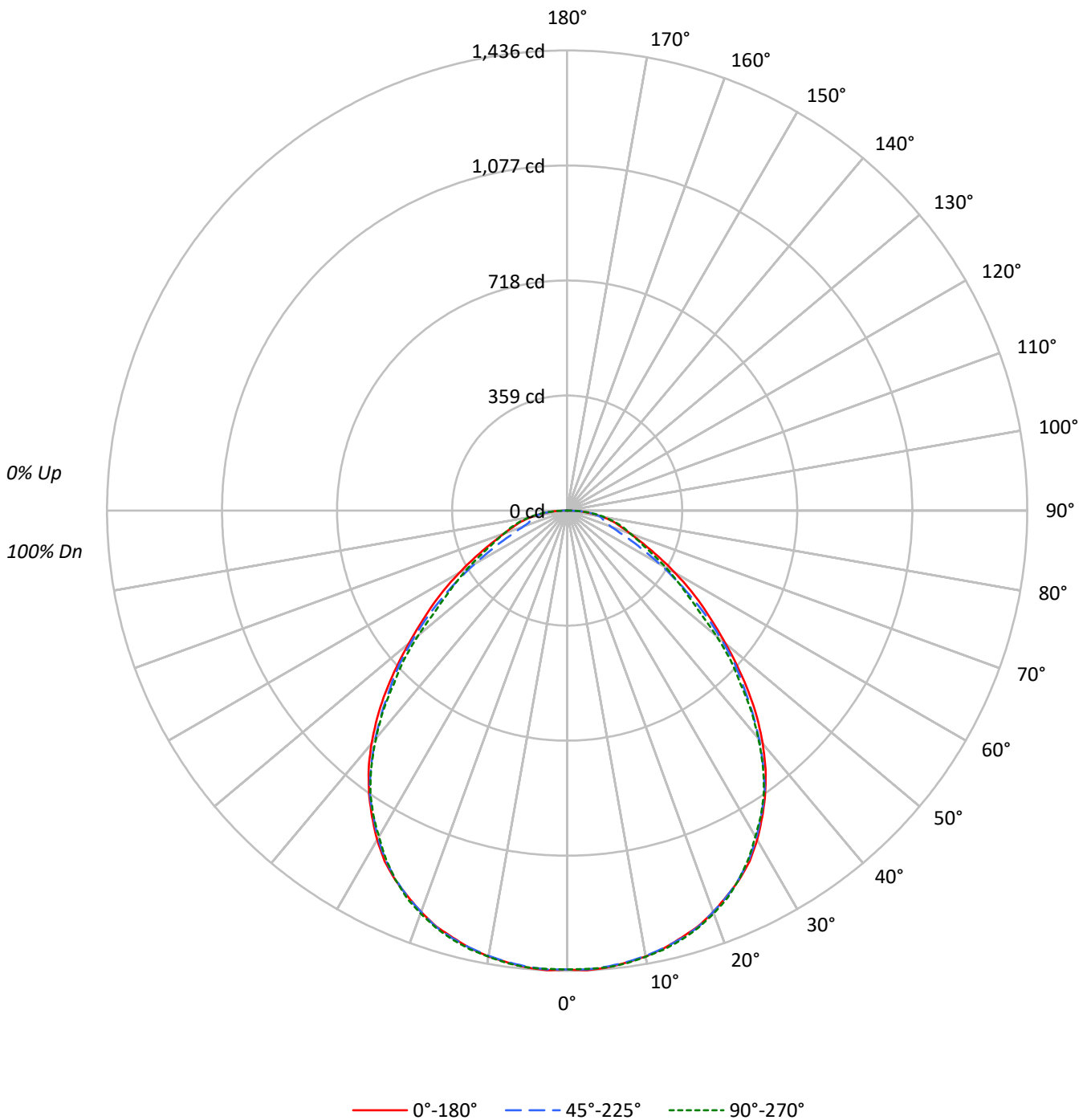
Input Watts (W): 25.871391
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	1927	1927	1927
5°	1933	1929	1933
10°	1931	1928	1931
15°	1921	1925	1930
20°	1908	1908	1916
25°	1887	1883	1885
30°	1843	1833	1824
35°	1770	1765	1758
40°	1667	1637	1630
45°	1525	1483	1456
50°	1348	1322	1270
55°	1199	1118	1075
60°	1044	894	959
65°	902	693	848
70°	823	567	821
75°	829	611	872
80°	863	797	919
85°	900	946	1017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	4.1
10°-20°	389.6	11.9
20°-30°	583.1	17.8
30°-40°	666.3	20.3
40°-50°	602.4	18.4
50°-60°	433.4	13.2
60°-70°	251.3	7.7
70°-80°	149.1	4.5
80°-90°	66.0	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°	1108.5	33.8
0°-40°	1774.9	54.2
0°-60°	2810.7	85.8
0°-90°	3277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1431	1429	1428	1426	1431	136
15°	1379	1382	1382	1380	1385	389
25°	1271	1269	1268	1266	1269	584
35°	1078	1072	1075	1061	1070	672
45°	802	788	780	772	765	616
55°	511	502	476	464	458	457
65°	283	252	218	243	266	286
75°	160	133	118	145	168	169
85°	58	63	61	70	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.9	1431.9	1431.9	1431.9	1431.9
2.5°	1436.0	1430.9	1433.5	1431.9	1431.4
5°	1431.4	1429.4	1428.4	1426.3	1430.9
7.5°	1422.2	1420.7	1421.2	1421.7	1424.8
10°	1413.0	1410.5	1411.0	1412.0	1413.5
12.5°	1398.7	1397.2	1397.7	1398.7	1402.3
15°	1379.3	1381.8	1381.8	1380.3	1385.4
17.5°	1359.9	1359.3	1361.9	1357.3	1364.5
20°	1332.8	1333.3	1332.8	1333.3	1337.9
22.5°	1302.1	1304.6	1303.1	1303.1	1308.2
25°	1270.9	1269.4	1268.3	1265.8	1269.4
27.5°	1233.6	1230.5	1228.0	1222.8	1225.4
30°	1186.0	1186.5	1179.9	1175.3	1174.3
32.5°	1132.9	1132.9	1126.7	1123.2	1126.2
35°	1077.7	1072.5	1074.6	1061.3	1070.5
37.5°	1017.8	1009.7	1005.1	1000.5	1003.5
40°	949.3	938.6	932.0	922.8	927.9
42.5°	877.3	864.0	855.8	849.1	851.2
45°	801.6	787.8	779.6	772.5	765.3
47.5°	721.8	713.2	709.1	699.9	691.7
50°	644.1	641.1	631.4	623.7	606.8
52.5°	573.1	570.5	555.2	542.4	520.9
55°	511.2	501.5	476.5	464.2	458.1
57.5°	448.3	432.5	402.3	400.8	404.9
60°	388.0	368.6	332.3	340.5	356.3
62.5°	333.3	304.2	269.4	288.8	307.8
65°	283.2	251.5	217.8	243.3	266.3
67.5°	241.8	210.1	175.3	209.6	236.2
70°	209.1	176.9	144.2	183.5	208.6
72.5°	182.0	152.9	125.8	163.1	189.2
75°	159.5	133.4	117.6	145.2	167.7
77.5°	137.0	116.0	112.5	129.3	143.1
80°	111.4	101.7	102.8	113.5	118.6
82.5°	83.3	83.8	86.4	95.1	93.0
85°	58.3	62.9	61.3	70.5	65.9
87.5°	32.2	35.3	33.2	40.4	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)