

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: P293798

Luminaire Tested: **24GR-LD5-34-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293798
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-LD5-34-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: 3211.0 lumens
Efficiency: N/A
Efficacy: 136.2 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

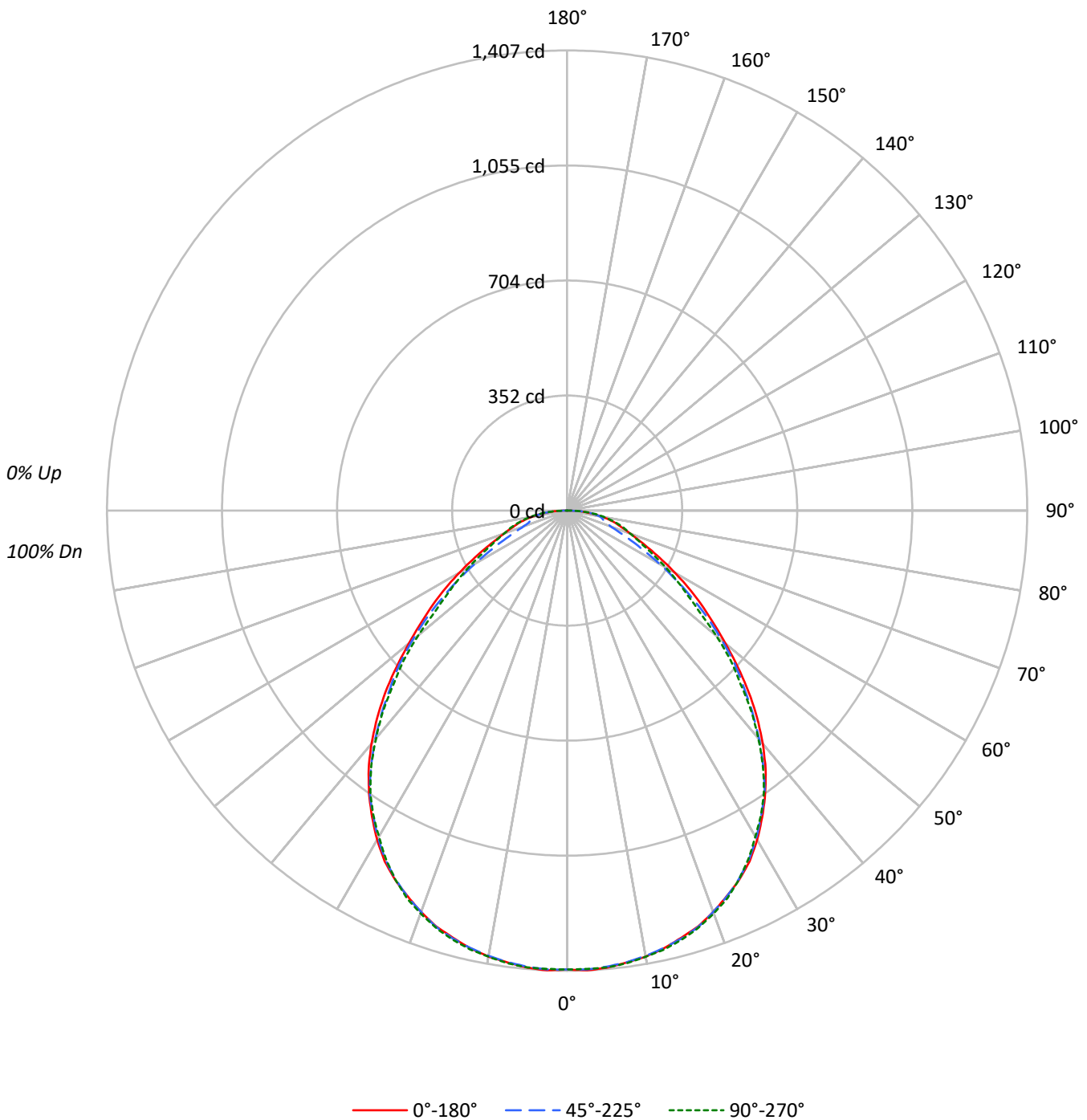
Input Watts (W): 23.568246
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1888	1888	1888
5°	1894	1890	1894
10°	1892	1889	1892
15°	1883	1886	1891
20°	1870	1870	1877
25°	1849	1845	1847
30°	1805	1796	1788
35°	1735	1729	1723
40°	1634	1604	1597
45°	1495	1454	1427
50°	1321	1295	1245
55°	1175	1095	1053
60°	1023	876	939
65°	883	679	831
70°	806	556	804
75°	813	599	854
80°	846	780	900
85°	881	928	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	4.1
10°-20°	381.7	11.9
20°-30°	571.4	17.8
30°-40°	652.9	20.3
40°-50°	590.3	18.4
50°-60°	424.7	13.2
60°-70°	246.2	7.7
70°-80°	146.0	4.5
80°-90°	64.7	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°	1086.2	33.8
0°-40°	1739.1	54.2
0°-60°	2754.1	85.8
0°-90°	3211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1403	1401	1400	1398	1402	133
15°	1352	1354	1354	1352	1358	382
25°	1245	1244	1243	1240	1244	573
35°	1056	1051	1053	1040	1049	658
45°	786	772	764	757	750	603
55°	501	491	467	455	449	448
65°	278	246	213	238	261	280
75°	156	131	115	142	164	165
85°	57	62	60	69	65	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1407.1	1402.1	1404.6	1403.1	1402.6
5°	1402.6	1400.6	1399.6	1397.6	1402.1
7.5°	1393.6	1392.1	1392.6	1393.1	1396.1
10°	1384.6	1382.1	1382.6	1383.6	1385.1
12.5°	1370.5	1369.0	1369.5	1370.5	1374.0
15°	1351.5	1354.0	1354.0	1352.5	1357.5
17.5°	1332.5	1332.0	1334.5	1330.0	1337.0
20°	1305.9	1306.4	1305.9	1306.4	1310.9
22.5°	1275.9	1278.4	1276.9	1276.9	1281.9
25°	1245.3	1243.8	1242.8	1240.3	1243.8
27.5°	1208.7	1205.7	1203.2	1198.2	1200.7
30°	1162.1	1162.7	1156.1	1151.6	1150.6
32.5°	1110.1	1110.1	1104.0	1100.5	1103.5
35°	1056.0	1050.9	1052.9	1039.9	1048.9
37.5°	997.3	989.3	984.8	980.3	983.3
40°	930.2	919.7	913.2	904.2	909.2
42.5°	859.6	846.6	838.6	832.0	834.0
45°	785.5	771.9	763.9	756.9	749.9
47.5°	707.3	698.8	694.8	685.8	677.8
50°	631.2	628.2	618.6	611.1	594.6
52.5°	561.5	559.0	544.0	531.5	510.4
55°	500.9	491.4	466.9	454.8	448.8
57.5°	439.3	423.8	394.2	392.7	396.7
60°	380.2	361.2	325.6	333.6	349.1
62.5°	326.6	298.1	264.0	283.0	301.6
65°	277.5	246.5	213.4	238.4	261.0
67.5°	236.9	205.9	171.8	205.4	231.4
70°	204.9	173.3	141.3	179.8	204.4
72.5°	178.3	149.8	123.2	159.8	185.3
75°	156.3	130.7	115.2	142.3	164.3
77.5°	134.2	113.7	110.2	126.7	140.3
80°	109.2	99.7	100.7	111.2	116.2
82.5°	81.7	82.2	84.7	93.2	91.2
85°	57.1	61.6	60.1	69.1	64.6
87.5°	31.6	34.6	32.6	39.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)