

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: P293418

Luminaire Tested: **24GR-LD5-34-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-A-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

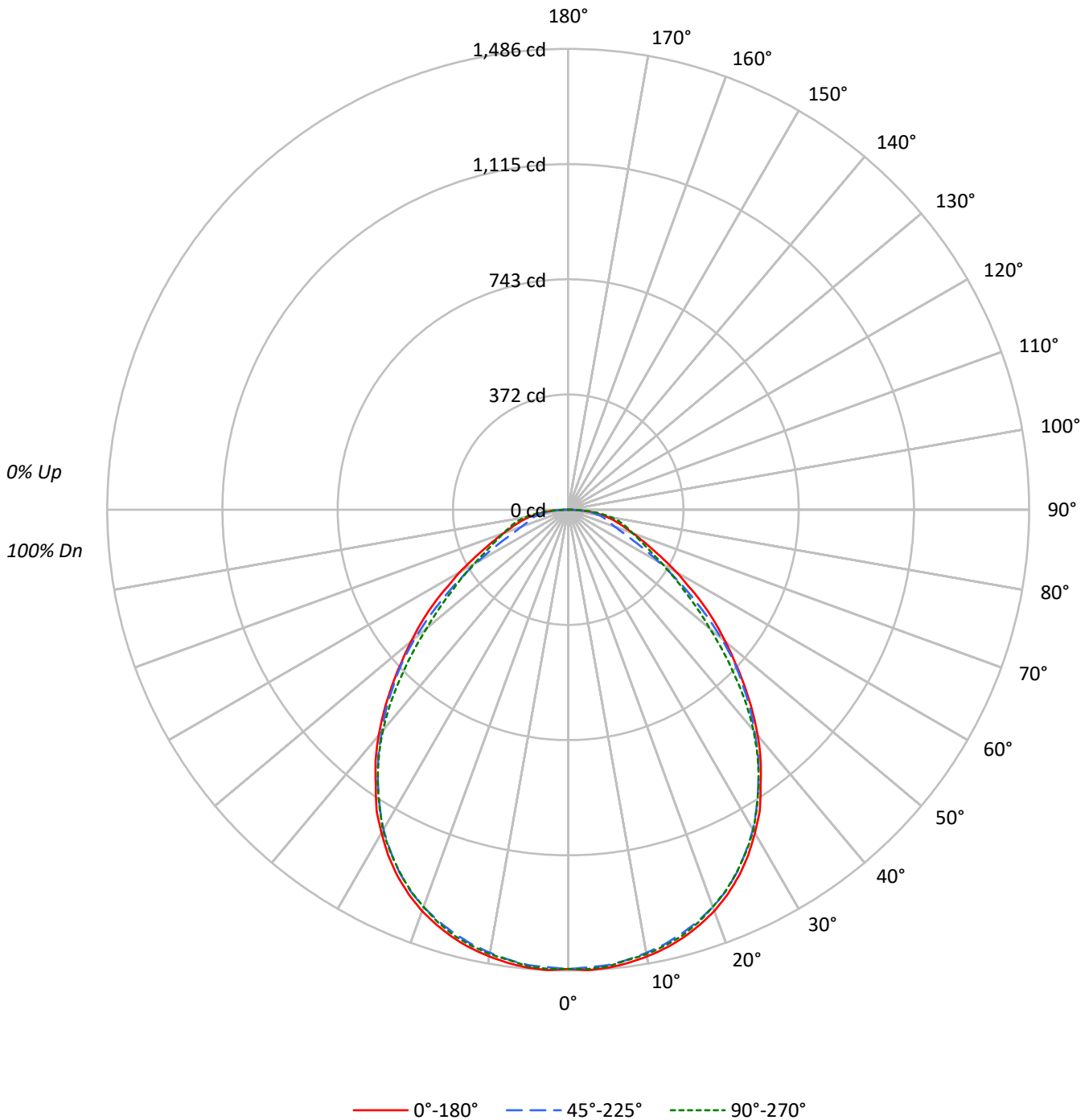
Input Watts (W): 22.971
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1993	1993	1993
5°	2002	1991	1996
10°	1999	1983	1988
15°	1991	1971	1980
20°	1972	1952	1951
25°	1934	1913	1912
30°	1870	1851	1855
35°	1776	1756	1759
40°	1670	1641	1631
45°	1531	1510	1450
50°	1384	1346	1245
55°	1242	1131	1073
60°	1088	910	944
65°	949	716	869
70°	868	625	868
75°	869	665	957
80°	943	783	1091
85°	1034	883	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	4.2
10°-20°	400.2	12.0
20°-30°	593.5	17.8
30°-40°	669.5	20.1
40°-50°	606.4	18.2
50°-60°	437.5	13.1
60°-70°	261.2	7.8
70°-80°	161.4	4.8
80°-90°	68.0	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°	1134.0	34.0
0°-40°	1803.5	54.0
0°-60°	2847.3	85.3
0°-90°	3338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1483	1480	1474	1473	1478	141
15°	1430	1421	1415	1416	1421	403
25°	1303	1295	1289	1284	1288	598
35°	1081	1080	1069	1070	1071	677
45°	804	799	794	774	762	620
55°	530	513	482	458	457	473
65°	298	262	225	255	273	300
75°	167	145	128	159	184	178
85°	67	59	57	75	76	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1486.2	1482.1	1476.9	1480.0	1482.6
5°	1482.6	1480.5	1474.3	1472.8	1477.9
7.5°	1474.8	1469.7	1464.0	1466.6	1464.5
10°	1463.0	1458.3	1451.1	1451.6	1455.2
12.5°	1448.5	1442.9	1435.1	1437.2	1440.3
15°	1429.5	1420.7	1415.0	1415.5	1421.2
17.5°	1405.2	1398.5	1391.3	1392.9	1395.4
20°	1377.4	1373.8	1363.5	1360.4	1362.9
22.5°	1342.3	1335.6	1329.9	1328.4	1328.9
25°	1302.6	1295.4	1288.7	1284.0	1287.7
27.5°	1256.2	1250.0	1241.2	1239.7	1242.8
30°	1203.6	1199.0	1191.2	1189.2	1193.8
32.5°	1150.0	1142.2	1131.4	1131.4	1132.4
35°	1081.4	1079.8	1069.0	1069.5	1070.6
37.5°	1019.5	1012.3	1006.1	999.9	1003.0
40°	950.9	942.7	934.4	930.3	928.7
42.5°	877.2	871.0	867.4	852.4	848.8
45°	804.5	799.3	793.6	774.0	762.2
47.5°	730.2	729.2	724.5	690.0	678.1
50°	661.1	659.6	643.1	606.4	594.6
52.5°	595.6	585.3	563.6	527.5	525.5
55°	529.6	513.1	482.2	458.4	457.4
57.5°	460.0	440.4	408.9	396.0	402.7
60°	404.3	374.4	338.3	339.8	350.7
62.5°	346.5	313.0	277.4	292.9	305.8
65°	298.1	262.5	224.8	255.3	272.8
67.5°	255.8	222.8	186.7	227.4	244.4
70°	220.7	193.9	158.8	201.6	220.7
72.5°	192.9	168.1	140.8	181.0	203.2
75°	167.1	144.9	127.9	159.3	184.1
77.5°	144.9	123.2	115.5	140.8	165.0
80°	121.7	102.1	101.1	122.7	140.8
82.5°	94.9	81.5	81.5	102.6	113.4
85°	67.0	58.8	57.2	74.8	75.8
87.5°	34.6	33.0	29.9	39.2	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)