

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: P293604

Luminaire Tested: **24GR-LD5-38-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293604
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-LD5-38-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3331.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

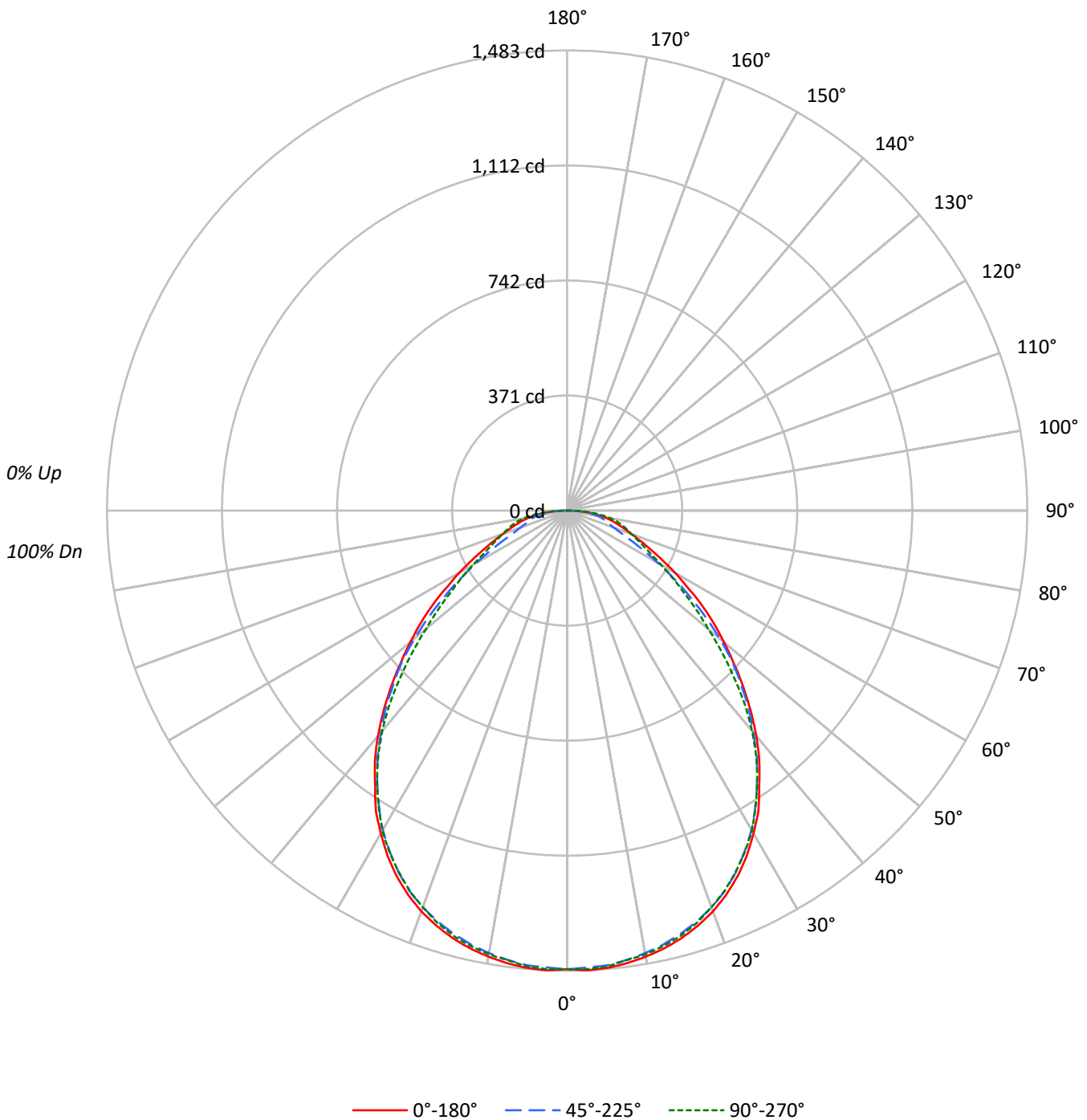
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1988	1988	1988
5°	1998	1987	1992
10°	1995	1978	1984
15°	1987	1967	1975
20°	1968	1948	1947
25°	1930	1909	1908
30°	1866	1847	1851
35°	1772	1752	1755
40°	1667	1638	1628
45°	1528	1507	1447
50°	1381	1343	1242
55°	1240	1129	1071
60°	1086	908	942
65°	947	714	867
70°	866	624	866
75°	867	663	955
80°	941	782	1089
85°	1033	881	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	4.2
10°-20°	399.4	12.0
20°-30°	592.2	17.8
30°-40°	668.1	20.1
40°-50°	605.1	18.2
50°-60°	436.6	13.1
60°-70°	260.7	7.8
70°-80°	161.1	4.8
80°-90°	67.9	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°	1131.6	34.0
0°-40°	1799.7	54.0
0°-60°	2841.4	85.3
0°-90°	3331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1480	1477	1471	1470	1475	141
15°	1426	1418	1412	1413	1418	402
25°	1300	1293	1286	1281	1285	597
35°	1079	1078	1067	1067	1068	675
45°	803	798	792	772	761	619
55°	528	512	481	458	456	472
65°	297	262	224	255	272	299
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°	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1483.1	1479.0	1473.8	1476.9	1479.5
5°	1479.5	1477.4	1471.2	1469.7	1474.8
7.5°	1471.8	1466.6	1460.9	1463.5	1461.5
10°	1459.9	1455.3	1448.1	1448.6	1452.2
12.5°	1445.5	1439.8	1432.1	1434.2	1437.3
15°	1426.5	1417.7	1412.1	1412.6	1418.2
17.5°	1402.3	1395.6	1388.4	1389.9	1392.5
20°	1374.5	1370.9	1360.6	1357.5	1360.1
22.5°	1339.5	1332.8	1327.1	1325.6	1326.1
25°	1299.9	1292.7	1286.0	1281.3	1285.0
27.5°	1253.6	1247.4	1238.6	1237.1	1240.2
30°	1201.1	1196.4	1188.7	1186.7	1191.3
32.5°	1147.6	1139.8	1129.0	1129.0	1130.1
35°	1079.1	1077.6	1066.8	1067.3	1068.3
37.5°	1017.4	1010.2	1004.0	997.8	1000.9
40°	948.9	940.7	932.5	928.3	926.8
42.5°	875.3	869.2	865.6	850.6	847.0
45°	802.8	797.6	792.0	772.4	760.6
47.5°	728.7	727.6	723.0	688.5	676.7
50°	659.7	658.2	641.7	605.2	593.3
52.5°	594.4	584.1	562.5	526.4	524.4
55°	528.5	512.0	481.1	457.5	456.4
57.5°	459.0	439.5	408.1	395.2	401.9
60°	403.4	373.6	337.6	339.1	349.9
62.5°	345.8	312.4	276.9	292.3	305.2
65°	297.4	261.9	224.4	254.7	272.2
67.5°	255.2	222.3	186.3	226.9	243.9
70°	220.2	193.5	158.5	201.2	220.2
72.5°	192.5	167.8	140.5	180.6	202.8
75°	166.7	144.6	127.6	159.0	183.7
77.5°	144.6	123.0	115.3	140.5	164.7
80°	121.4	101.9	100.9	122.5	140.5
82.5°	94.7	81.3	81.3	102.4	113.2
85°	66.9	58.7	57.1	74.6	75.6
87.5°	34.5	32.9	29.8	39.1	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)