

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: P293600

Luminaire Tested: **24GR-LD5-34-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293600
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3330.0 lumens
Efficiency: N/A
Efficacy: 140.4 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

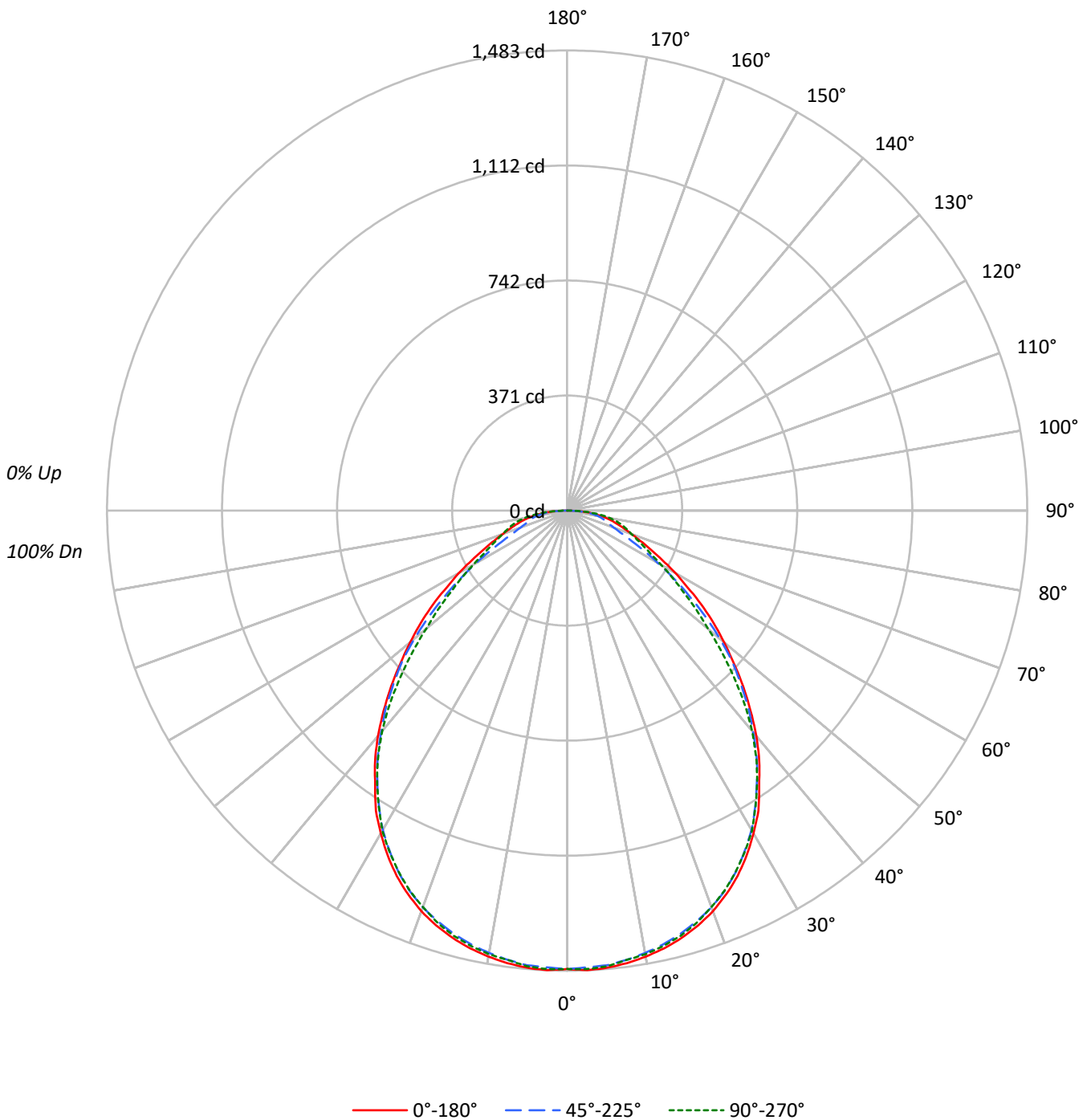
Input Watts (W): 23.715
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	1991
10°	1994	1978	1984
15°	1986	1966	1975
20°	1967	1948	1947
25°	1929	1909	1907
30°	1865	1846	1850
35°	1772	1752	1754
40°	1666	1637	1627
45°	1527	1506	1447
50°	1380	1343	1242
55°	1239	1128	1070
60°	1085	908	941
65°	947	714	866
70°	866	623	866
75°	867	663	955
80°	941	781	1088
85°	1033	881	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	4.2
10°-20°	399.3	12.0
20°-30°	592.1	17.8
30°-40°	667.9	20.1
40°-50°	604.9	18.2
50°-60°	436.4	13.1
60°-70°	260.6	7.8
70°-80°	161.1	4.8
80°-90°	67.8	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°	1131.3	34.0
0°-40°	1799.2	54.0
0°-60°	2840.5	85.3
0°-90°	3330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1479	1477	1471	1469	1474	141
15°	1426	1417	1412	1412	1418	402
25°	1300	1292	1286	1281	1285	597
35°	1079	1077	1066	1067	1068	675
45°	802	797	792	772	760	618
55°	528	512	481	457	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°	1477.5	1477.5	1477.5	1477.5	1477.5
2.5°	1482.6	1478.5	1473.4	1476.5	1479.0
5°	1479.0	1477.0	1470.8	1469.3	1474.4
7.5°	1471.3	1466.2	1460.5	1463.1	1461.0
10°	1459.5	1454.8	1447.6	1448.2	1451.8
12.5°	1445.1	1439.4	1431.7	1433.8	1436.8
15°	1426.0	1417.3	1411.6	1412.1	1417.8
17.5°	1401.9	1395.2	1388.0	1389.5	1392.1
20°	1374.1	1370.5	1360.2	1357.1	1359.7
22.5°	1339.1	1332.4	1326.8	1325.2	1325.7
25°	1299.5	1292.3	1285.6	1281.0	1284.6
27.5°	1253.2	1247.0	1238.3	1236.7	1239.8
30°	1200.7	1196.1	1188.4	1186.3	1190.9
32.5°	1147.2	1139.5	1128.7	1128.7	1129.7
35°	1078.8	1077.2	1066.4	1067.0	1068.0
37.5°	1017.1	1009.9	1003.7	997.5	1000.6
40°	948.6	940.4	932.2	928.1	926.5
42.5°	875.1	868.9	865.3	850.4	846.8
45°	802.5	797.4	791.7	772.2	760.3
47.5°	728.5	727.4	722.8	688.3	676.5
50°	659.5	658.0	641.5	605.0	593.2
52.5°	594.2	583.9	562.3	526.3	524.2
55°	528.3	511.9	481.0	457.3	456.3
57.5°	458.9	439.3	408.0	395.1	401.8
60°	403.3	373.5	337.5	339.0	349.8
62.5°	345.7	312.3	276.8	292.2	305.1
65°	297.3	261.9	224.3	254.6	272.1
67.5°	255.2	222.2	186.2	226.9	243.8
70°	220.2	193.4	158.4	201.1	220.2
72.5°	192.4	167.7	140.4	180.6	202.7
75°	166.7	144.6	127.6	159.0	183.7
77.5°	144.6	123.0	115.2	140.4	164.6
80°	121.4	101.9	100.8	122.4	140.4
82.5°	94.7	81.3	81.3	102.4	113.2
85°	66.9	58.6	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)