

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: P293593

Luminaire Tested: **24GR-LD5-34-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293593
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2768.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

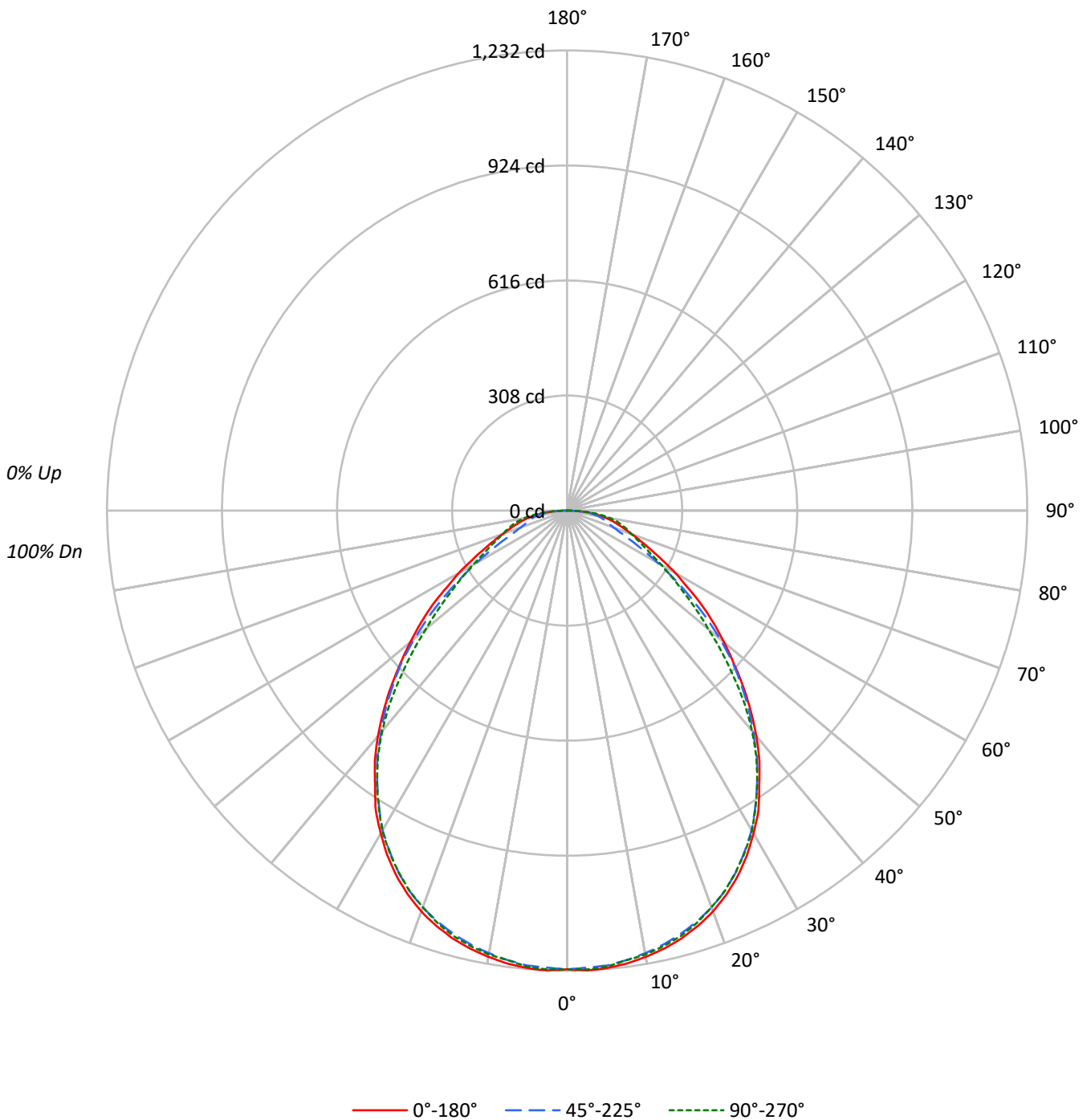
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1652	1652	1652
5°	1660	1651	1655
10°	1658	1644	1649
15°	1651	1634	1642
20°	1635	1619	1618
25°	1604	1586	1585
30°	1551	1535	1538
35°	1473	1456	1458
40°	1385	1361	1353
45°	1269	1252	1203
50°	1147	1116	1032
55°	1030	938	890
60°	902	755	783
65°	787	593	720
70°	720	518	720
75°	720	552	794
80°	782	649	904
85°	858	733	971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	4.2
10°-20°	331.9	12.0
20°-30°	492.1	17.8
30°-40°	555.2	20.1
40°-50°	502.8	18.2
50°-60°	362.8	13.1
60°-70°	216.6	7.8
70°-80°	133.9	4.8
80°-90°	56.4	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°	940.3	34.0
0°-40°	1495.5	54.0
0°-60°	2361.1	85.3
0°-90°	2768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1229	1228	1223	1221	1226	117
15°	1185	1178	1173	1174	1178	334
25°	1080	1074	1069	1065	1068	496
35°	897	895	886	887	888	561
45°	667	663	658	642	632	514
55°	439	426	400	380	379	392
65°	247	218	186	212	226	249
75°	138	120	106	132	153	148
85°	56	49	48	62	63	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.1	1228.1	1228.1	1228.1	1228.1
2.5°	1232.4	1229.0	1224.7	1227.3	1229.4
5°	1229.4	1227.7	1222.6	1221.3	1225.6
7.5°	1223.0	1218.7	1214.0	1216.2	1214.4
10°	1213.2	1209.3	1203.3	1203.8	1206.7
12.5°	1201.2	1196.5	1190.1	1191.8	1194.3
15°	1185.4	1178.1	1173.4	1173.8	1178.5
17.5°	1165.3	1159.7	1153.7	1155.0	1157.1
20°	1142.2	1139.2	1130.6	1128.1	1130.2
22.5°	1113.1	1107.5	1102.8	1101.6	1102.0
25°	1080.2	1074.2	1068.6	1064.8	1067.8
27.5°	1041.7	1036.6	1029.3	1028.0	1030.6
30°	998.1	994.2	987.8	986.1	989.9
32.5°	953.6	947.2	938.2	938.2	939.1
35°	896.7	895.4	886.5	886.9	887.7
37.5°	845.4	839.4	834.3	829.2	831.7
40°	788.5	781.7	774.9	771.4	770.1
42.5°	727.4	722.3	719.3	706.9	703.9
45°	667.1	662.8	658.1	641.9	632.0
47.5°	605.5	604.7	600.8	572.2	562.3
50°	548.2	546.9	533.2	502.9	493.0
52.5°	493.9	485.4	467.4	437.5	435.7
55°	439.2	425.5	399.8	380.2	379.3
57.5°	381.4	365.2	339.1	328.4	334.0
60°	335.3	310.5	280.5	281.8	290.8
62.5°	287.4	259.6	230.1	242.9	253.6
65°	247.2	217.7	186.4	211.7	226.2
67.5°	212.1	184.7	154.8	188.6	202.7
70°	183.0	160.8	131.7	167.2	183.0
72.5°	159.9	139.4	116.7	150.1	168.5
75°	138.5	120.2	106.1	132.1	152.7
77.5°	120.2	102.2	95.8	116.7	136.8
80°	100.9	84.7	83.8	101.8	116.7
82.5°	78.7	67.6	67.6	85.1	94.1
85°	55.6	48.7	47.5	62.0	62.9
87.5°	28.7	27.4	24.8	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)