

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: P293091

Luminaire Tested: **24GR-LD5-34-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F1-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2987.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

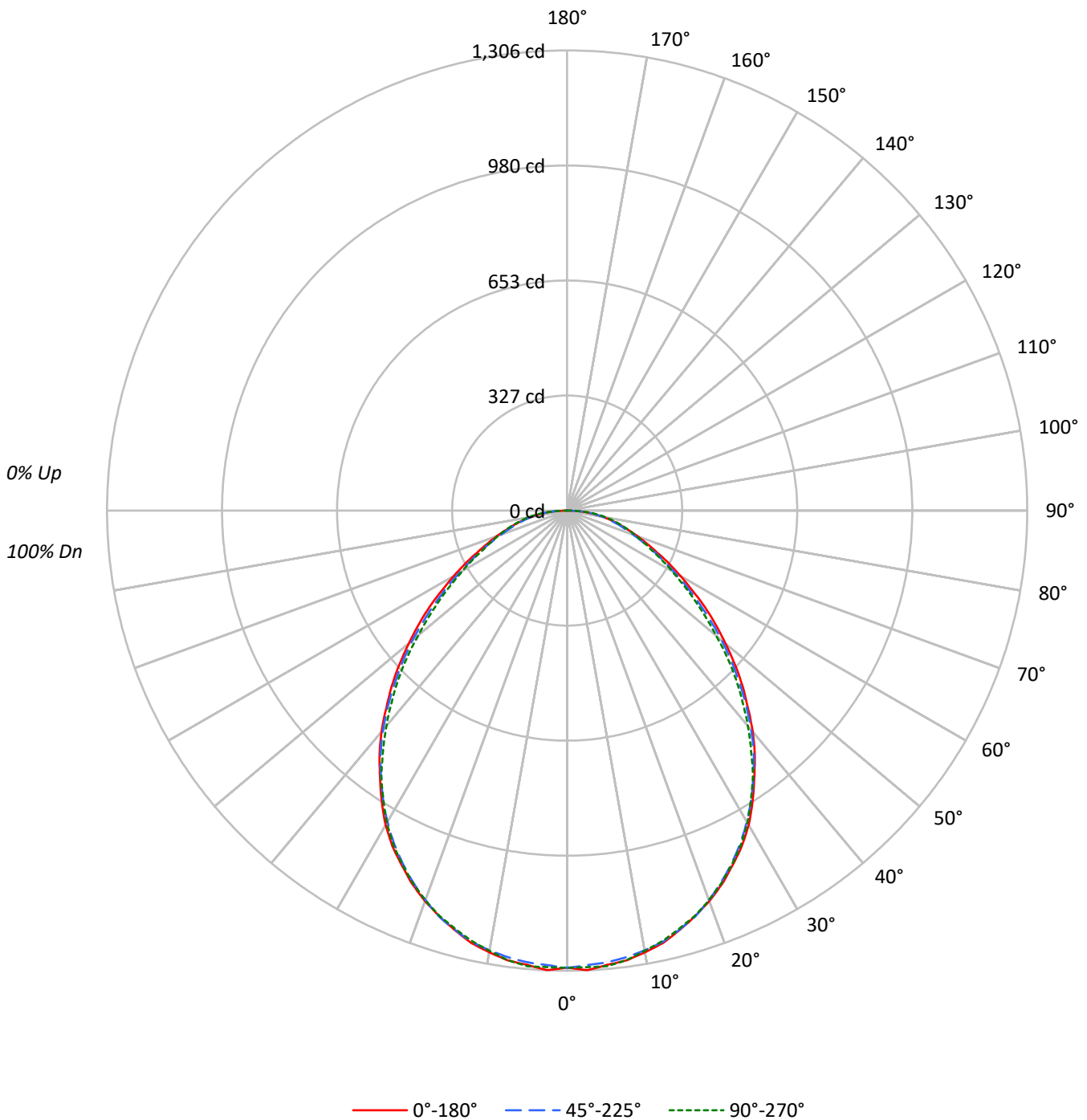
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293091

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P293091

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L92765-W2A1-U-3500K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1746	1746	1746
5°	1748	1738	1753
10°	1739	1731	1733
15°	1717	1716	1711
20°	1688	1685	1685
25°	1649	1640	1644
30°	1601	1585	1590
35°	1521	1514	1510
40°	1440	1427	1402
45°	1339	1315	1290
50°	1226	1199	1154
55°	1120	1069	1033
60°	998	950	925
65°	898	851	840
70°	834	783	814
75°	797	762	827
80°	797	797	883
85°	827	837	932



TEST NUMBER: P293091

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	4.1
10°-20°	346.8	11.6
20°-30°	508.9	17.0
30°-40°	575.4	19.3
40°-50°	531.8	17.8
50°-60°	409.7	13.7
60°-70°	271.3	9.1
70°-80°	161.5	5.4
80°-90°	59.2	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°	978.2	32.7
0°-40°	1553.6	52.0
0°-60°	2495.0	83.5
0°-90°	2987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1294	1294	1287	1288	1298	123
15°	1233	1230	1232	1231	1228	347
25°	1111	1108	1105	1103	1107	511
35°	926	925	922	917	919	579
45°	704	699	691	679	678	542
55°	478	468	456	444	440	426
65°	282	278	267	265	264	283
75°	153	150	147	153	159	164
85°	54	50	54	60	60	57
90°	0	0	0	0	0	



TEST NUMBER: P293091

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.5	1297.5	1297.5	1297.5	1297.5
2.5°	1305.5	1298.7	1291.3	1291.3	1296.9
5°	1294.4	1294.4	1287.0	1287.6	1298.1
7.5°	1287.6	1283.9	1279.0	1279.0	1287.0
10°	1272.8	1269.8	1267.3	1266.1	1268.5
12.5°	1256.8	1251.9	1253.7	1251.9	1251.3
15°	1232.8	1230.3	1231.6	1230.9	1228.5
17.5°	1206.9	1205.7	1208.1	1203.8	1205.7
20°	1179.2	1175.5	1176.7	1174.3	1176.7
22.5°	1147.8	1145.3	1142.2	1139.1	1144.1
25°	1110.8	1107.7	1104.6	1103.4	1107.1
27.5°	1073.8	1068.9	1064.6	1063.4	1068.9
30°	1030.7	1025.2	1020.2	1019.0	1023.3
32.5°	979.6	978.3	972.2	969.7	971.6
35°	926.0	924.7	921.7	917.4	919.2
37.5°	874.8	874.2	869.9	862.5	857.6
40°	820.0	815.7	812.6	802.1	798.5
42.5°	759.6	758.4	752.9	741.2	736.8
45°	703.6	698.6	691.3	678.9	677.7
47.5°	645.7	638.9	632.1	616.7	616.1
50°	585.9	581.0	573.0	557.6	551.4
52.5°	530.5	523.7	512.6	497.8	494.7
55°	477.5	467.6	455.9	443.6	440.5
57.5°	420.8	416.5	402.3	392.4	388.8
60°	370.9	367.2	353.0	343.8	343.8
62.5°	325.9	320.4	308.0	301.9	301.9
65°	282.2	277.9	267.4	264.9	263.7
67.5°	244.6	239.0	231.6	231.0	234.1
70°	211.9	205.2	199.0	205.2	207.0
72.5°	181.1	176.8	171.3	179.3	183.0
75°	153.4	149.7	146.6	153.4	159.0
77.5°	128.1	124.4	124.4	131.8	136.8
80°	102.9	100.4	102.9	109.0	114.0
82.5°	78.9	77.0	80.1	86.3	89.3
85°	53.6	50.5	54.2	59.8	60.4
87.5°	25.3	24.6	27.1	30.8	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)