

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: P293595

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293595
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-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: 3022.0 lumens
Efficiency: N/A
Efficacy: 131.0 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

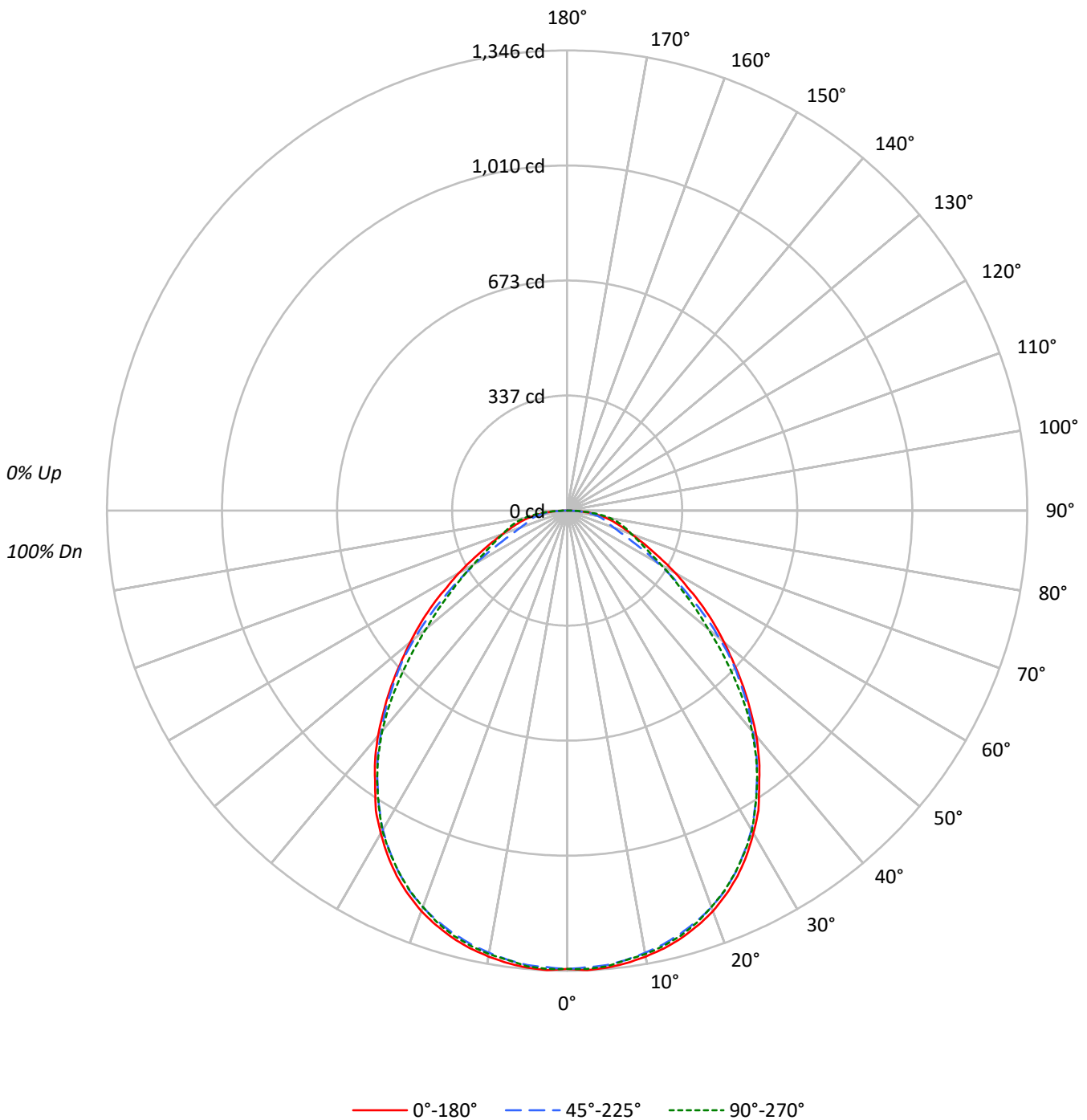
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293595

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

Luminous Intensity Polar Plot





TEST NUMBER: P293595

CATALOG NUMBER: 24GR-LD5-34-A-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	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°	1804	1804	1804
5°	1813	1803	1807
10°	1810	1795	1800
15°	1803	1785	1792
20°	1786	1767	1767
25°	1751	1732	1731
30°	1693	1676	1679
35°	1608	1590	1592
40°	1512	1486	1477
45°	1386	1367	1313
50°	1253	1219	1127
55°	1125	1024	971
60°	985	824	854
65°	859	648	786
70°	786	566	786
75°	787	602	867
80°	854	709	988
85°	937	800	1059



TEST NUMBER: P293595

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	4.2
10°-20°	362.4	12.0
20°-30°	537.3	17.8
30°-40°	606.1	20.1
40°-50°	549.0	18.2
50°-60°	396.0	13.1
60°-70°	236.5	7.8
70°-80°	146.2	4.8
80°-90°	61.6	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°	1026.6	34.0
0°-40°	1632.8	54.0
0°-60°	2577.8	85.3
0°-90°	3022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1342	1340	1335	1333	1338	128
15°	1294	1286	1281	1282	1287	365
25°	1179	1173	1167	1162	1166	542
35°	979	978	968	968	969	613
45°	728	724	718	701	690	561
55°	480	464	436	415	414	428
65°	270	238	204	231	247	271
75°	151	131	116	144	167	162
85°	61	53	52	68	69	63
90°	0	0	0	0	0	



TEST NUMBER: P293595

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.8	1340.8	1340.8	1340.8	1340.8
2.5°	1345.5	1341.8	1337.1	1339.9	1342.2
5°	1342.2	1340.4	1334.8	1333.4	1338.0
7.5°	1335.2	1330.6	1325.4	1327.8	1325.9
10°	1324.5	1320.3	1313.7	1314.2	1317.5
12.5°	1311.4	1306.3	1299.3	1301.1	1303.9
15°	1294.1	1286.2	1281.1	1281.5	1286.7
17.5°	1272.2	1266.1	1259.6	1261.0	1263.3
20°	1247.0	1243.7	1234.4	1231.6	1233.9
22.5°	1215.2	1209.2	1204.0	1202.6	1203.1
25°	1179.3	1172.8	1166.7	1162.5	1165.8
27.5°	1137.3	1131.7	1123.7	1122.3	1125.1
30°	1089.7	1085.5	1078.5	1076.6	1080.8
32.5°	1041.1	1034.1	1024.3	1024.3	1025.2
35°	979.0	977.6	967.8	968.3	969.2
37.5°	923.0	916.4	910.8	905.2	908.0
40°	860.9	853.4	846.0	842.2	840.8
42.5°	794.1	788.5	785.3	771.7	768.5
45°	728.3	723.6	718.5	700.8	690.0
47.5°	661.1	660.1	655.9	624.7	613.9
50°	598.5	597.1	582.2	549.0	538.3
52.5°	539.2	529.9	510.3	477.6	475.7
55°	479.5	464.5	436.5	415.0	414.1
57.5°	416.4	398.7	370.2	358.5	364.6
60°	366.0	338.9	306.3	307.7	317.5
62.5°	313.7	283.4	251.2	265.2	276.8
65°	269.8	237.6	203.6	231.1	247.0
67.5°	231.6	201.7	169.0	205.9	221.3
70°	199.8	175.5	143.8	182.5	199.8
72.5°	174.6	152.2	127.5	163.9	183.9
75°	151.3	131.2	115.8	144.3	166.7
77.5°	131.2	111.6	104.6	127.5	149.4
80°	110.2	92.4	91.5	111.1	127.5
82.5°	85.9	73.8	73.8	92.9	102.7
85°	60.7	53.2	51.8	67.7	68.6
87.5°	31.3	29.9	27.1	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)