

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: P293473

Luminaire Tested: **24GR-LD5-34-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293473
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-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.0 lumens
Efficiency: N/A
Efficacy: 155.5 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

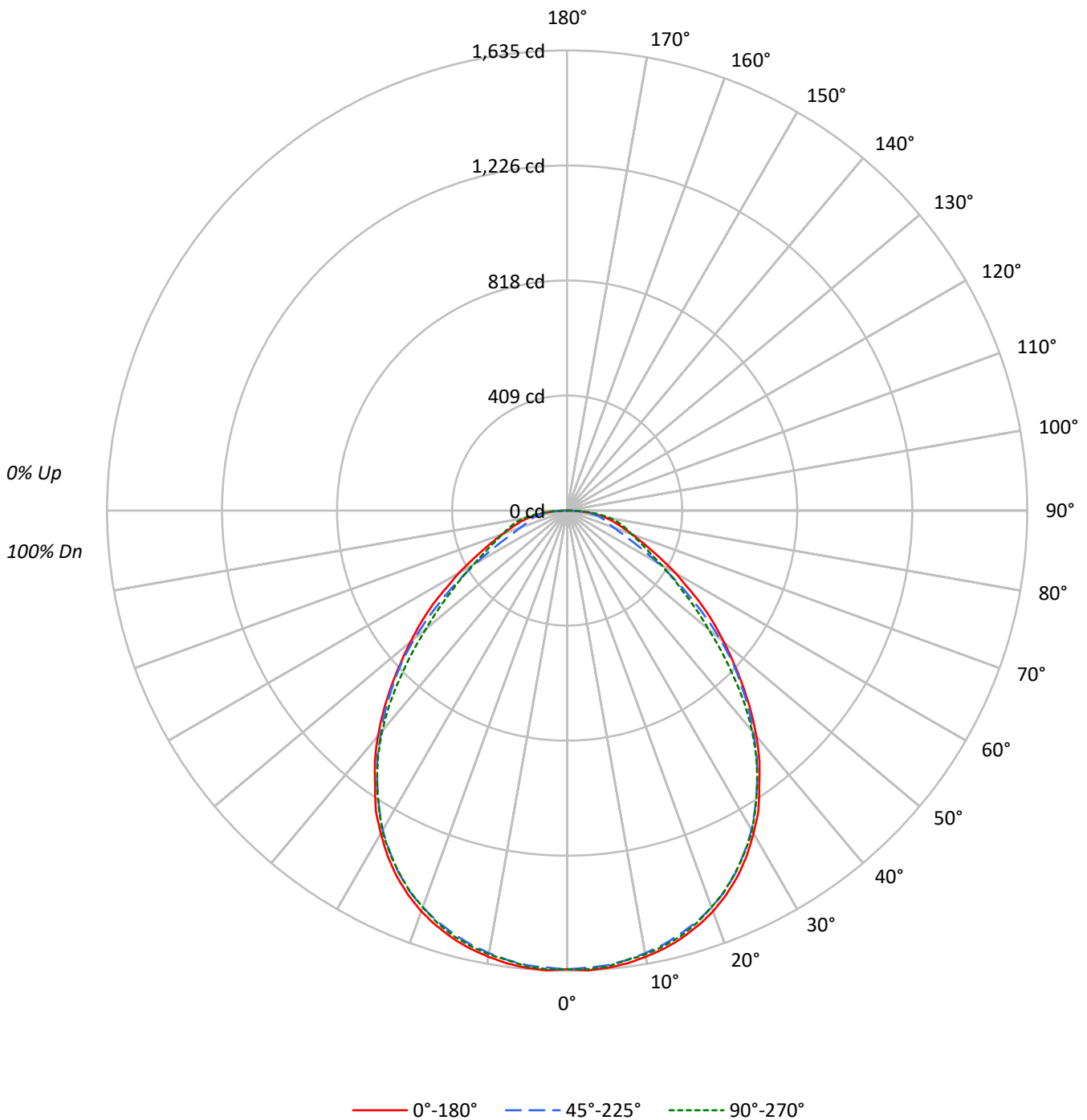
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2193	2193	2193
5°	2203	2191	2197
10°	2199	2182	2188
15°	2191	2169	2178
20°	2170	2148	2147
25°	2128	2105	2104
30°	2058	2037	2041
35°	1954	1932	1935
40°	1838	1806	1795
45°	1684	1662	1596
50°	1523	1481	1370
55°	1367	1244	1181
60°	1197	1002	1038
65°	1044	788	956
70°	956	688	956
75°	955	731	1053
80°	1038	862	1200
85°	1139	973	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	4.2
10°-20°	440.4	12.0
20°-30°	653.0	17.8
30°-40°	736.7	20.1
40°-50°	667.2	18.2
50°-60°	481.4	13.1
60°-70°	287.4	7.8
70°-80°	177.6	4.8
80°-90°	74.8	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°	1247.8	34.0
0°-40°	1984.5	54.0
0°-60°	3133.1	85.3
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1631	1629	1622	1621	1626	155
15°	1573	1563	1557	1558	1564	443
25°	1433	1425	1418	1413	1417	658
35°	1190	1188	1176	1177	1178	744
45°	885	880	873	852	839	682
55°	583	565	530	504	503	520
65°	328	289	247	281	300	330
75°	184	159	141	175	203	196
85°	74	65	63	82	83	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.7	1629.7	1629.7	1629.7	1629.7
2.5°	1635.3	1630.8	1625.1	1628.5	1631.4
5°	1631.4	1629.1	1622.3	1620.6	1626.3
7.5°	1622.9	1617.2	1610.9	1613.8	1611.5
10°	1609.8	1604.7	1596.8	1597.3	1601.3
12.5°	1593.9	1587.7	1579.2	1581.4	1584.8
15°	1572.9	1563.3	1557.0	1557.6	1563.8
17.5°	1546.3	1538.9	1530.9	1532.6	1535.5
20°	1515.6	1511.6	1500.3	1496.9	1499.7
22.5°	1477.0	1469.7	1463.4	1461.7	1462.3
25°	1433.3	1425.4	1418.0	1412.9	1416.9
27.5°	1382.3	1375.5	1365.8	1364.1	1367.5
30°	1324.4	1319.3	1310.8	1308.5	1313.6
32.5°	1265.4	1256.9	1244.9	1244.9	1246.1
35°	1189.9	1188.2	1176.3	1176.9	1178.0
37.5°	1121.8	1113.9	1107.1	1100.3	1103.7
40°	1046.3	1037.3	1028.2	1023.6	1021.9
42.5°	965.2	958.4	954.4	938.0	934.0
45°	885.2	879.5	873.3	851.7	838.7
47.5°	803.5	802.4	797.2	759.2	746.2
50°	727.4	725.7	707.6	667.3	654.3
52.5°	655.4	644.0	620.2	580.5	578.2
55°	582.8	564.6	530.5	504.4	503.3
57.5°	506.2	484.6	450.0	435.8	443.2
60°	444.9	412.0	372.2	373.9	385.9
62.5°	381.3	344.4	305.3	322.3	336.5
65°	328.0	288.8	247.4	280.9	300.2
67.5°	281.4	245.1	205.4	250.2	269.0
70°	242.9	213.4	174.8	221.9	242.9
72.5°	212.2	185.0	154.9	199.2	223.6
75°	183.8	159.4	140.7	175.3	202.6
77.5°	159.4	135.6	127.1	154.9	181.6
80°	133.9	112.4	111.2	135.0	154.9
82.5°	104.4	89.7	89.7	112.9	124.8
85°	73.8	64.7	63.0	82.3	83.4
87.5°	38.0	36.3	32.9	43.1	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)