

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: P293360

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F125-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

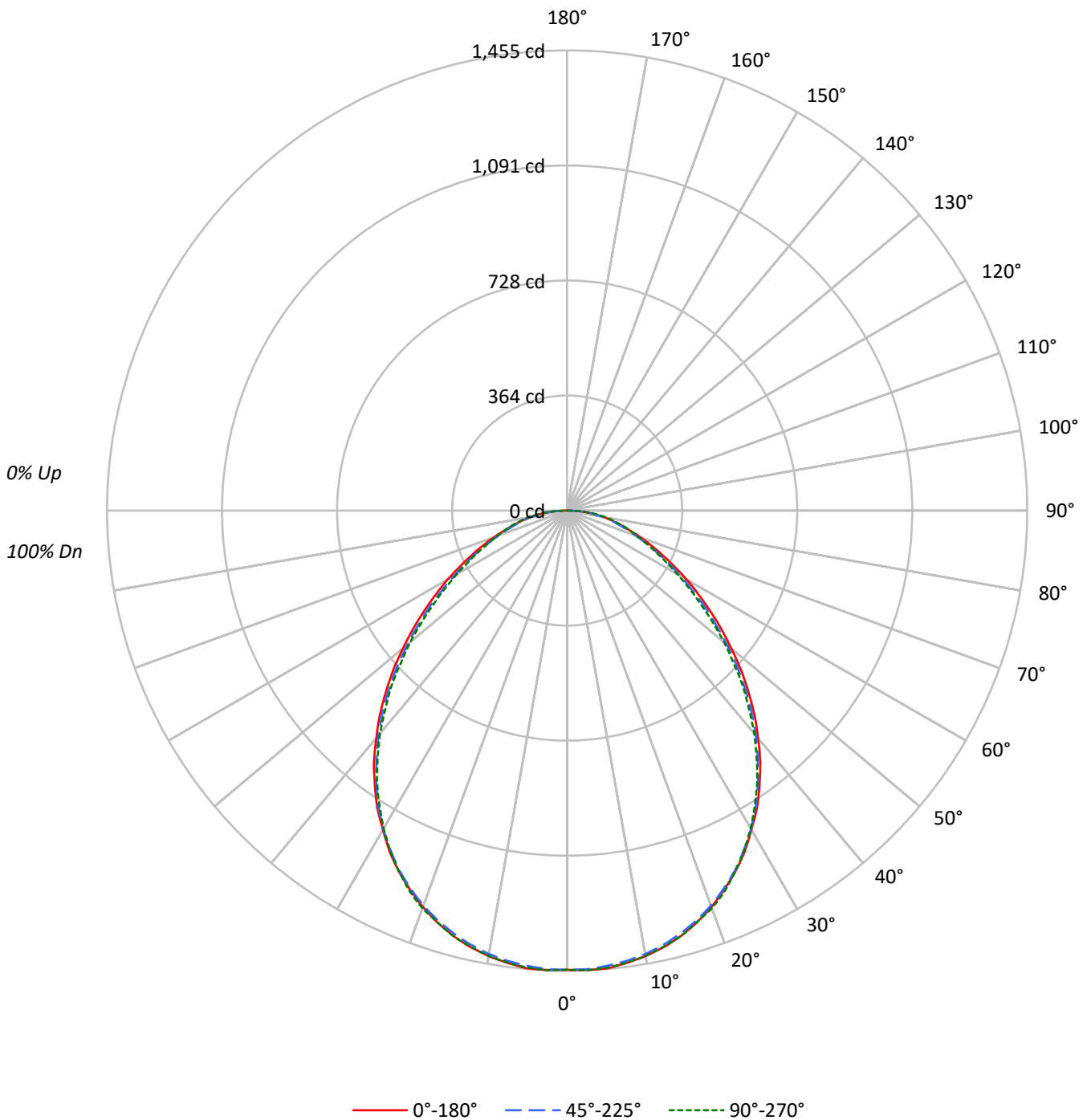
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	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	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1953	1953	1953
5°	1962	1952	1959
10°	1954	1945	1954
15°	1939	1929	1941
20°	1911	1903	1917
25°	1869	1864	1868
30°	1810	1807	1803
35°	1742	1729	1722
40°	1649	1630	1617
45°	1542	1514	1496
50°	1417	1379	1356
55°	1293	1245	1209
60°	1174	1111	1082
65°	1057	998	981
70°	968	905	930
75°	905	863	927
80°	898	881	968
85°	915	923	1054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	4.0
10°-20°	390.6	11.4
20°-30°	577.1	16.9
30°-40°	656.1	19.2
40°-50°	612.7	17.9
50°-60°	476.5	13.9
60°-70°	316.2	9.3
70°-80°	183.0	5.4
80°-90°	66.5	1.9
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°	1105.1	32.4
0°-40°	1761.2	51.6
0°-60°	2850.4	83.4
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1453	1445	1445	1448	1451	138
15°	1392	1385	1384	1384	1393	392
25°	1259	1254	1256	1253	1258	579
35°	1060	1055	1052	1045	1048	662
45°	810	804	796	785	786	625
55°	551	543	531	517	515	494
65°	332	322	313	308	308	332
75°	174	170	166	174	178	186
85°	59	58	60	68	68	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.8	1451.8	1451.8	1451.8	1451.8
2.5°	1453.9	1449.7	1451.8	1450.2	1455.0
5°	1452.9	1445.4	1444.9	1447.5	1450.7
7.5°	1442.7	1434.7	1436.3	1436.3	1441.7
10°	1430.4	1422.4	1423.5	1424.0	1429.9
12.5°	1413.9	1405.9	1406.4	1405.9	1411.8
15°	1392.0	1385.1	1384.5	1384.0	1393.1
17.5°	1365.3	1355.7	1358.9	1359.4	1364.2
20°	1334.3	1326.9	1329.0	1328.5	1338.6
22.5°	1297.5	1292.1	1293.8	1292.7	1302.3
25°	1259.0	1253.7	1255.8	1253.2	1258.5
27.5°	1215.8	1212.1	1209.9	1208.3	1212.1
30°	1165.1	1162.9	1162.9	1156.0	1160.3
32.5°	1117.0	1110.1	1110.1	1107.4	1104.7
35°	1060.4	1055.1	1052.4	1044.9	1048.1
37.5°	1003.8	991.5	990.5	984.6	984.6
40°	938.7	931.7	928.0	921.6	920.5
42.5°	876.7	869.8	863.4	852.7	850.6
45°	810.5	804.1	795.6	785.4	786.0
47.5°	744.9	735.8	727.8	715.5	713.9
50°	677.0	670.6	658.9	648.2	647.7
52.5°	613.5	603.4	592.7	579.9	579.9
55°	551.0	543.0	530.7	516.9	515.3
57.5°	491.2	483.8	469.9	459.7	457.1
60°	436.2	425.6	412.7	404.2	402.1
62.5°	381.2	371.6	362.0	353.5	352.9
65°	332.1	322.0	313.4	307.6	308.1
67.5°	287.8	279.3	269.6	268.0	268.6
70°	246.1	237.1	230.1	233.9	236.5
72.5°	206.6	201.8	197.0	202.4	206.1
75°	174.1	169.8	166.1	173.5	178.3
77.5°	144.2	141.0	140.4	146.8	151.1
80°	115.9	112.1	113.7	121.2	124.9
82.5°	88.1	85.4	86.0	95.0	97.7
85°	59.3	58.2	59.8	67.8	68.3
87.5°	31.5	31.5	32.6	37.4	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)