

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: P293168

Luminaire Tested: **24GR-LD5-34-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293168
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-LD5-34-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3666.0 lumens
Efficiency: N/A
Efficacy: 155.8 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

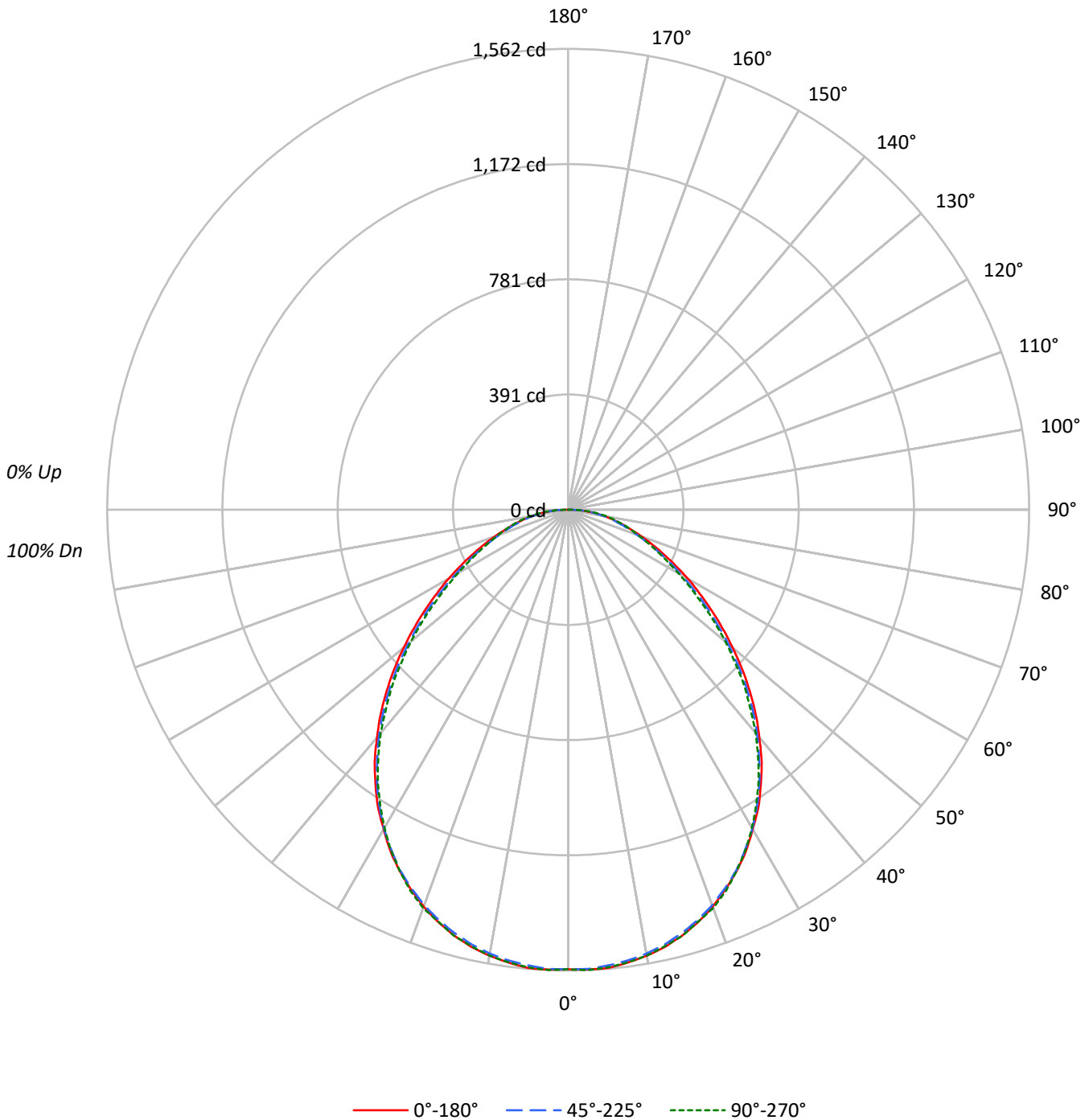
Input Watts (W): 23.529
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	2096	2096	2096
5°	2106	2094	2103
10°	2097	2087	2097
15°	2081	2070	2082
20°	2050	2042	2057
25°	2006	2001	2005
30°	1943	1939	1935
35°	1869	1855	1848
40°	1769	1749	1735
45°	1655	1625	1605
50°	1521	1480	1455
55°	1387	1336	1297
60°	1260	1192	1161
65°	1135	1071	1053
70°	1039	972	998
75°	971	926	995
80°	963	946	1039
85°	982	991	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	4.0
10°-20°	419.2	11.4
20°-30°	619.3	16.9
30°-40°	704.1	19.2
40°-50°	657.5	17.9
50°-60°	511.4	13.9
60°-70°	339.3	9.3
70°-80°	196.3	5.4
80°-90°	71.4	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°	1186.0	32.4
0°-40°	1890.1	51.6
0°-60°	3059.0	83.4
0°-90°	3666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1559	1551	1551	1554	1557	148
15°	1494	1486	1486	1485	1495	421
25°	1351	1346	1348	1345	1351	621
35°	1138	1132	1129	1121	1125	710
45°	870	863	854	843	844	670
55°	591	583	570	555	553	530
65°	356	346	336	330	331	356
75°	187	182	178	186	191	200
85°	64	62	64	73	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.0	1558.0	1558.0	1558.0	1558.0
2.5°	1560.3	1555.8	1558.0	1556.3	1561.5
5°	1559.2	1551.2	1550.6	1553.5	1556.9
7.5°	1548.3	1539.7	1541.4	1541.4	1547.2
10°	1535.1	1526.5	1527.7	1528.3	1534.6
12.5°	1517.4	1508.8	1509.3	1508.8	1515.1
15°	1493.9	1486.4	1485.8	1485.3	1495.0
17.5°	1465.2	1454.9	1458.3	1458.9	1464.1
20°	1432.0	1424.0	1426.3	1425.7	1436.6
22.5°	1392.4	1386.7	1388.4	1387.3	1397.6
25°	1351.2	1345.5	1347.8	1344.9	1350.6
27.5°	1304.8	1300.8	1298.5	1296.8	1300.8
30°	1250.3	1248.0	1248.0	1240.6	1245.2
32.5°	1198.8	1191.3	1191.3	1188.4	1185.6
35°	1138.0	1132.3	1129.4	1121.4	1124.8
37.5°	1077.3	1064.1	1063.0	1056.7	1056.7
40°	1007.4	999.9	995.9	989.0	987.9
42.5°	940.9	933.5	926.6	915.1	912.8
45°	869.8	863.0	853.8	842.9	843.5
47.5°	799.4	789.6	781.0	767.9	766.1
50°	726.6	719.7	707.1	695.6	695.1
52.5°	658.4	647.5	636.1	622.3	622.3
55°	591.4	582.8	569.6	554.7	553.0
57.5°	527.2	519.2	504.3	493.4	490.5
60°	468.2	456.7	442.9	433.8	431.5
62.5°	409.1	398.8	388.5	379.3	378.8
65°	356.4	345.5	336.4	330.1	330.6
67.5°	308.9	299.7	289.4	287.7	288.2
70°	264.2	254.4	247.0	251.0	253.8
72.5°	221.8	216.6	211.4	217.2	221.2
75°	186.8	182.2	178.2	186.2	191.4
77.5°	154.7	151.3	150.7	157.6	162.2
80°	124.3	120.3	122.1	130.1	134.1
82.5°	94.5	91.7	92.3	102.0	104.9
85°	63.6	62.5	64.2	72.8	73.3
87.5°	33.8	33.8	35.0	40.1	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)