

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: P293170

Luminaire Tested: **24GR-LD5-34-F125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293170  
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-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3700.0 lumens  
Efficiency: N/A  
Efficacy: 153.6 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

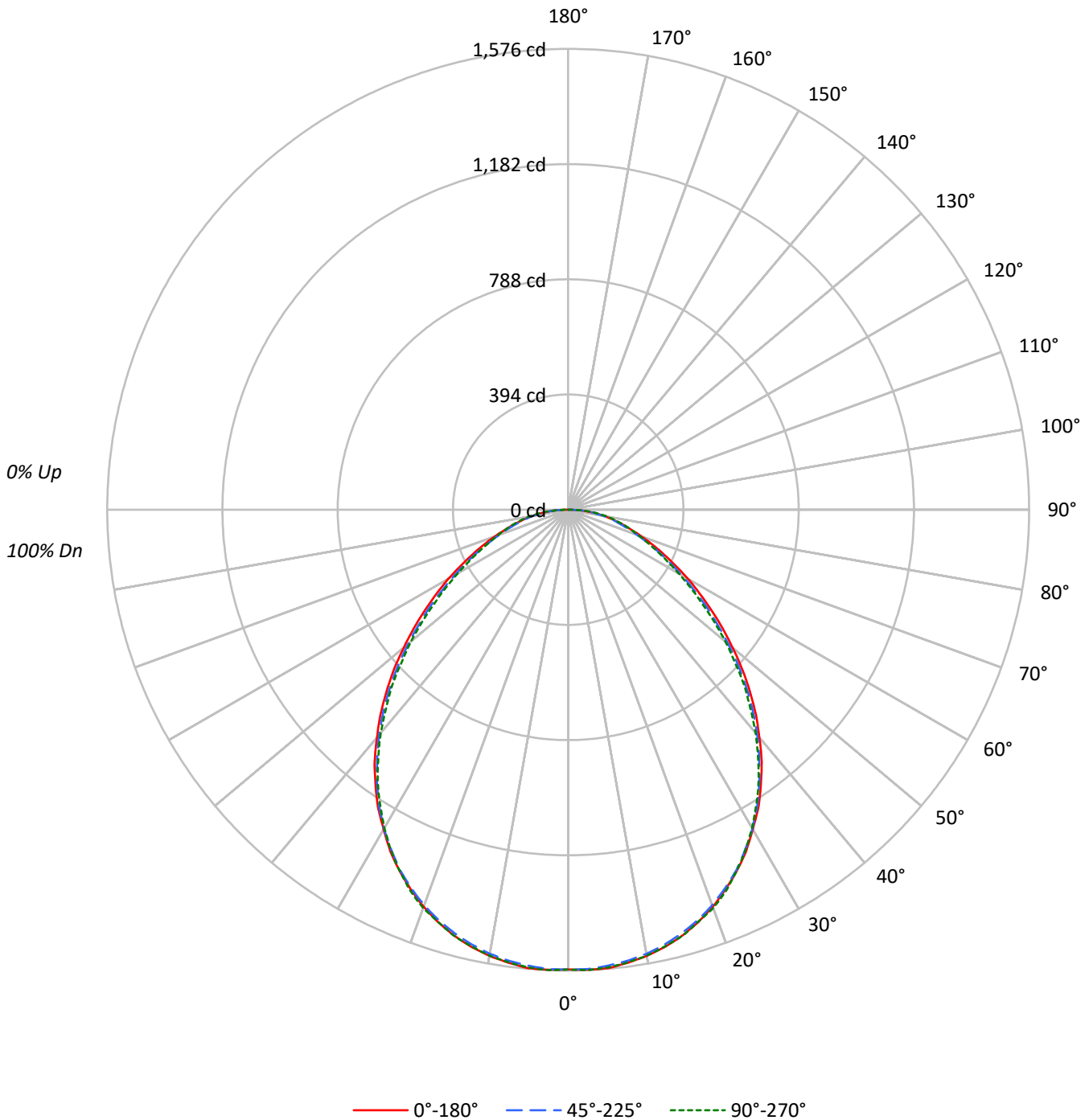
Input Watts (W): 24.087  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2116	2116	2116
5°	2125	2114	2122
10°	2117	2106	2116
15°	2100	2089	2102
20°	2069	2061	2076
25°	2025	2019	2024
30°	1961	1957	1952
35°	1887	1872	1865
40°	1786	1766	1751
45°	1670	1640	1620
50°	1535	1494	1468
55°	1400	1349	1309
60°	1271	1203	1172
65°	1145	1081	1062
70°	1049	981	1008
75°	980	935	1004
80°	972	955	1048
85°	991	1000	1142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.8	4.0
10°-20°	423.1	11.4
20°-30°	625.1	16.9
30°-40°	710.6	19.2
40°-50°	663.6	17.9
50°-60°	516.1	13.9
60°-70°	342.4	9.3
70°-80°	198.2	5.4
80°-90°	72.0	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°	1197.0	32.4
0°-40°	1907.6	51.6
0°-60°	3087.3	83.4
0°-90°	3700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1574	1566	1565	1568	1571	149
15°	1508	1500	1500	1499	1509	425
25°	1364	1358	1360	1357	1363	627
35°	1149	1143	1140	1132	1135	717
45°	878	871	862	851	851	676
55°	597	588	575	560	558	535
65°	360	349	340	333	334	359
75°	188	184	180	188	193	202
85°	64	63	65	73	74	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1572.5	1572.5	1572.5	1572.5	1572.5
2.5°	1574.8	1570.2	1572.5	1570.8	1576.0
5°	1573.7	1565.6	1565.0	1567.9	1571.3
7.5°	1562.7	1554.0	1555.7	1555.7	1561.5
10°	1549.4	1540.7	1541.8	1542.4	1548.8
12.5°	1531.4	1522.8	1523.3	1522.8	1529.1
15°	1507.7	1500.2	1499.6	1499.1	1508.9
17.5°	1478.8	1468.4	1471.9	1472.4	1477.7
20°	1445.3	1437.2	1439.5	1438.9	1449.9
22.5°	1405.4	1399.6	1401.3	1400.2	1410.6
25°	1363.7	1357.9	1360.2	1357.4	1363.1
27.5°	1316.9	1312.8	1310.5	1308.8	1312.8
30°	1261.9	1259.6	1259.6	1252.1	1256.7
32.5°	1209.9	1202.4	1202.4	1199.5	1196.6
35°	1148.6	1142.8	1139.9	1131.8	1135.3
37.5°	1087.3	1074.0	1072.8	1066.5	1066.5
40°	1016.7	1009.2	1005.2	998.2	997.1
42.5°	949.6	942.1	935.2	923.6	921.3
45°	877.9	871.0	861.7	850.7	851.3
47.5°	806.8	796.9	788.3	775.0	773.2
50°	733.3	726.4	713.7	702.1	701.5
52.5°	664.5	653.5	642.0	628.1	628.1
55°	596.8	588.2	574.9	559.8	558.1
57.5°	532.1	524.0	508.9	497.9	495.1
60°	472.5	460.9	447.1	437.8	435.5
62.5°	412.9	402.5	392.1	382.9	382.3
65°	359.7	348.7	339.5	333.1	333.7
67.5°	311.7	302.5	292.1	290.3	290.9
70°	266.6	256.8	249.3	253.3	256.2
72.5°	223.8	218.6	213.4	219.2	223.2
75°	188.5	183.9	179.9	188.0	193.2
77.5°	156.2	152.7	152.1	159.0	163.7
80°	125.5	121.5	123.2	131.3	135.3
82.5°	95.4	92.5	93.1	102.9	105.8
85°	64.2	63.0	64.8	73.4	74.0
87.5°	34.1	34.1	35.3	40.5	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)