

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: P293218

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293218  
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-L82765-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: 3485.0 lumens  
Efficiency: N/A  
Efficacy: 149.9 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

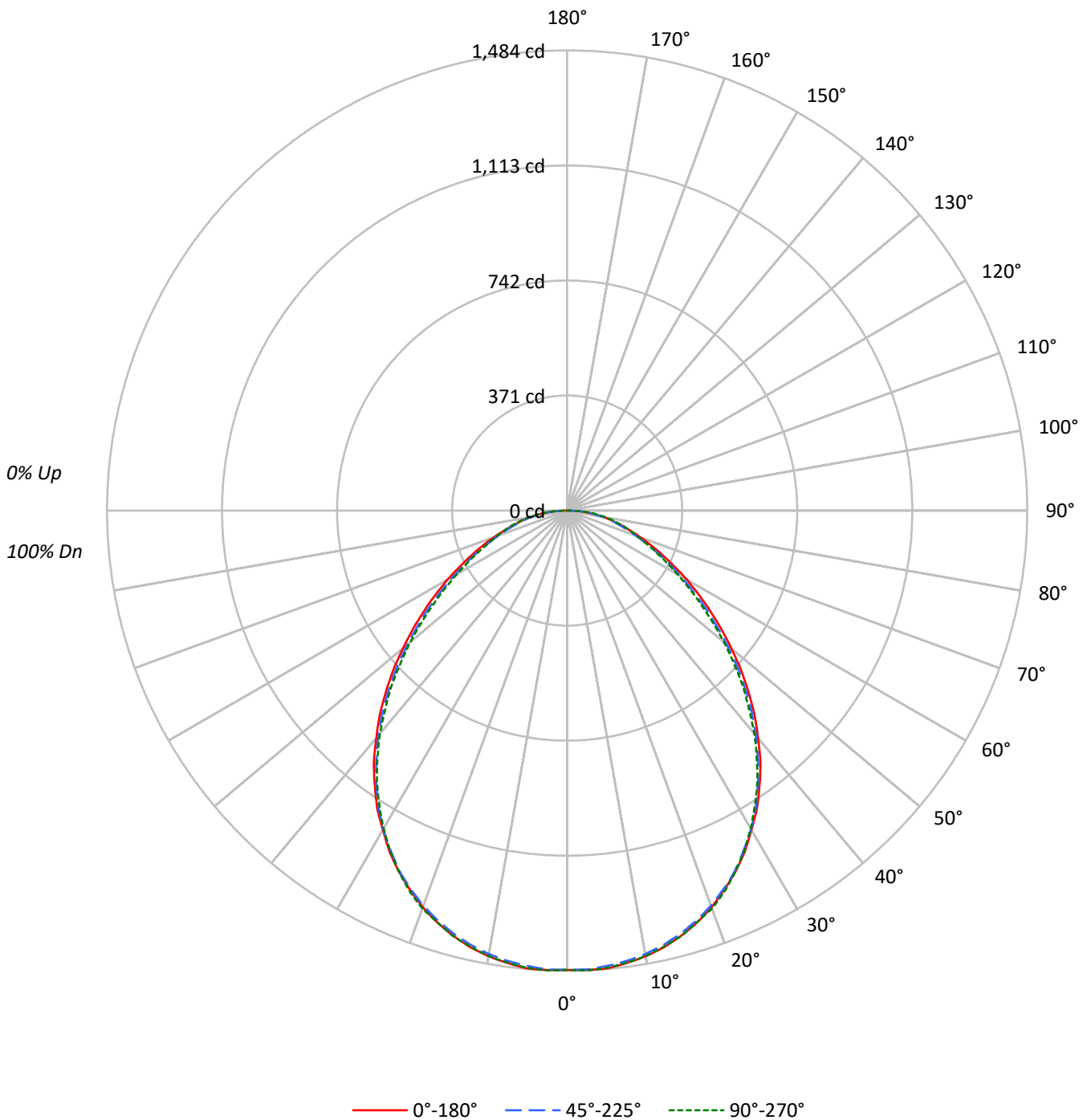
Input Watts (W): 23.25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1993	1993	1993
5°	2002	1991	1999
10°	1994	1984	1993
15°	1978	1968	1980
20°	1949	1941	1955
25°	1907	1902	1906
30°	1847	1843	1839
35°	1777	1764	1756
40°	1682	1663	1649
45°	1573	1544	1526
50°	1446	1407	1383
55°	1319	1270	1233
60°	1197	1133	1104
65°	1079	1018	1001
70°	988	924	949
75°	923	881	946
80°	916	899	988
85°	934	942	1076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.2	4.0
10°-20°	398.5	11.4
20°-30°	588.7	16.9
30°-40°	669.3	19.2
40°-50°	625.1	17.9
50°-60°	486.1	13.9
60°-70°	322.5	9.3
70°-80°	186.7	5.4
80°-90°	67.9	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°	1127.4	32.4
0°-40°	1796.8	51.6
0°-60°	2907.9	83.4
0°-90°	3485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3485.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1482	1475	1474	1477	1480	141
15°	1420	1413	1412	1412	1421	400
25°	1284	1279	1281	1278	1284	591
35°	1082	1076	1074	1066	1069	675
45°	827	820	812	801	802	637
55°	562	554	542	527	526	504
65°	339	328	320	314	314	339
75°	178	173	169	177	182	190
85°	60	59	61	69	70	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1483.3	1478.9	1481.1	1479.5	1484.4
5°	1482.2	1474.6	1474.0	1476.8	1480.0
7.5°	1471.9	1463.7	1465.3	1465.3	1470.8
10°	1459.3	1451.2	1452.3	1452.8	1458.8
12.5°	1442.4	1434.3	1434.8	1434.3	1440.3
15°	1420.1	1413.0	1412.5	1411.9	1421.2
17.5°	1392.9	1383.1	1386.3	1386.9	1391.8
20°	1361.3	1353.7	1355.8	1355.3	1365.6
22.5°	1323.7	1318.2	1319.9	1318.8	1328.6
25°	1284.5	1279.0	1281.2	1278.5	1283.9
27.5°	1240.4	1236.5	1234.4	1232.7	1236.5
30°	1188.6	1186.4	1186.4	1179.3	1183.7
32.5°	1139.6	1132.5	1132.5	1129.8	1127.0
35°	1081.8	1076.4	1073.7	1066.0	1069.3
37.5°	1024.1	1011.6	1010.5	1004.5	1004.5
40°	957.6	950.6	946.7	940.2	939.1
42.5°	894.4	887.4	880.8	869.9	867.8
45°	826.9	820.4	811.6	801.3	801.8
47.5°	759.9	750.6	742.5	729.9	728.3
50°	690.7	684.2	672.2	661.3	660.8
52.5°	625.9	615.5	604.7	591.6	591.6
55°	562.2	554.0	541.5	527.3	525.7
57.5°	501.2	493.5	479.4	469.0	466.3
60°	445.0	434.2	421.1	412.4	410.2
62.5°	388.9	379.1	369.3	360.6	360.1
65°	338.8	328.5	319.8	313.8	314.3
67.5°	293.6	284.9	275.1	273.5	274.0
70°	251.1	241.9	234.8	238.6	241.3
72.5°	210.8	205.9	201.0	206.5	210.3
75°	177.6	173.2	169.4	177.0	181.9
77.5°	147.1	143.8	143.3	149.8	154.2
80°	118.2	114.4	116.0	123.7	127.5
82.5°	89.9	87.2	87.7	97.0	99.7
85°	60.5	59.4	61.0	69.2	69.7
87.5°	32.1	32.1	33.2	38.1	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)