

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: P219045

Luminaire Tested: **24GR-LD5-64-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-F1-UNV-L935-CD1-U  
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

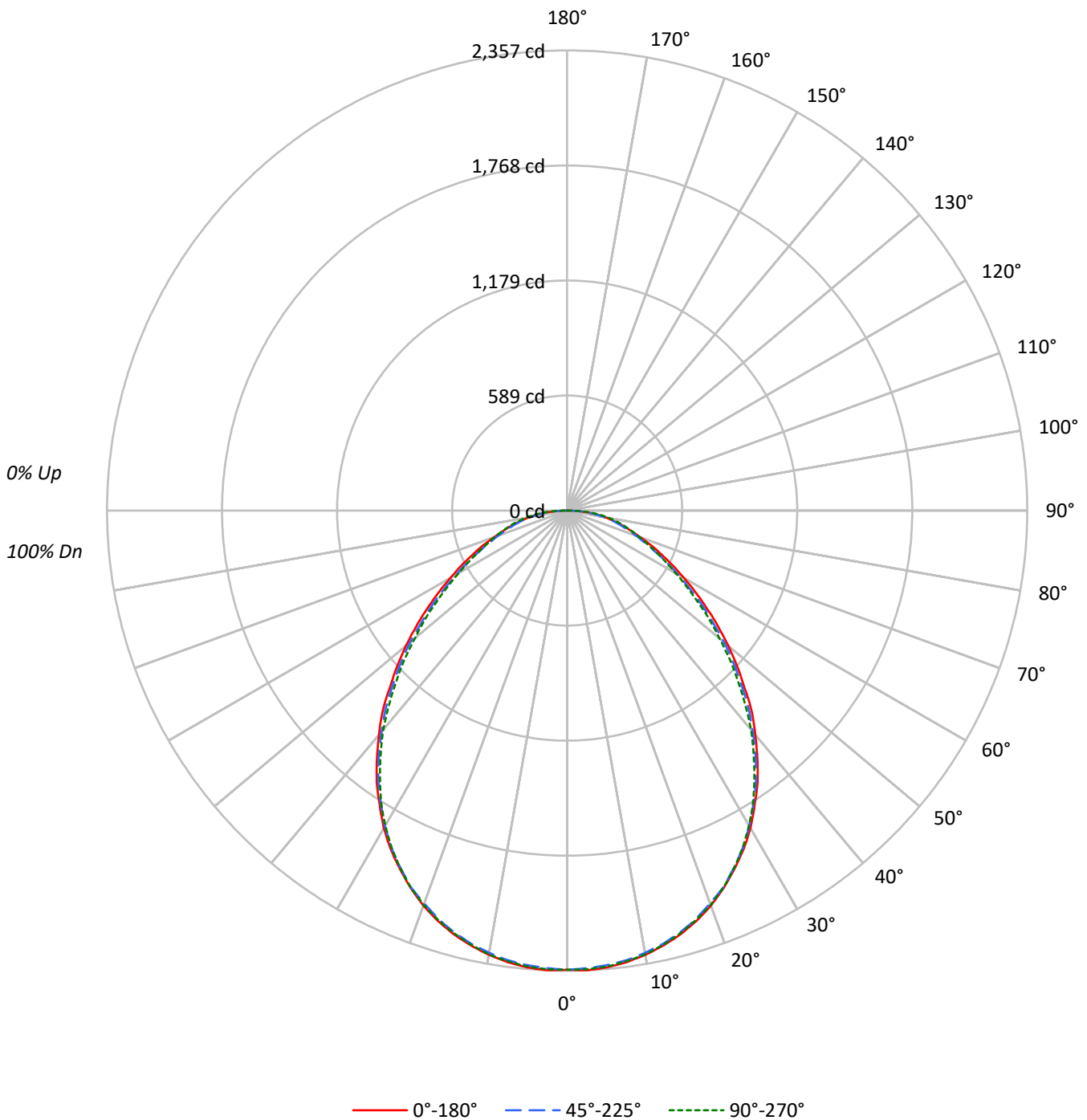
Lumens per Lamp: N/A  
Luminaire Lumens: 5492.7 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 48.149  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	94	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	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°	3602	3602	3602
5°	3611	3594	3604
10°	3593	3577	3590
15°	3562	3546	3554
20°	3510	3489	3503
25°	3425	3413	3416
30°	3320	3301	3295
35°	3180	3154	3126
40°	2997	2958	2929
45°	2784	2735	2684
50°	2567	2500	2426
55°	2334	2252	2182
60°	2114	2002	1966
65°	1933	1804	1817
70°	1779	1676	1756
75°	1729	1639	1789
80°	1732	1688	1905
85°	1905	1801	2098



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.2	4.0
10°-20°	630.6	11.5
20°-30°	929.2	16.9
30°-40°	1050.8	19.1
40°-50°	974.7	17.7
50°-60°	757.3	13.8
60°-70°	507.8	9.2
70°-80°	304.3	5.5
80°-90°	115.8	2.1
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°	1782.0	32.4
0°-40°	2832.8	51.6
0°-60°	4564.8	83.1
0°-90°	5492.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5492.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2352	2352	2352	2352	2352	
5°	2348	2342	2337	2336	2344	223
15°	2247	2237	2236	2232	2242	633
25°	2027	2024	2020	2016	2022	933
35°	1700	1694	1687	1677	1672	1060
45°	1286	1280	1263	1243	1239	994
55°	874	864	844	822	817	784
65°	534	516	498	496	501	533
75°	292	282	277	290	302	309
85°	108	102	102	120	119	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2351.7	2351.7	2351.7	2351.7	2351.7
2.5°	2356.8	2349.1	2345.8	2344.1	2351.7
5°	2348.4	2341.6	2337.3	2335.6	2344.1
7.5°	2333.1	2325.5	2323.0	2319.6	2328.0
10°	2310.2	2303.4	2300.1	2297.5	2308.5
12.5°	2281.4	2275.5	2272.1	2270.4	2277.2
15°	2246.7	2237.4	2236.5	2232.4	2241.6
17.5°	2203.5	2195.0	2193.3	2191.6	2197.6
20°	2153.6	2145.1	2140.9	2140.0	2149.3
22.5°	2093.5	2087.5	2089.2	2084.1	2090.9
25°	2026.6	2024.0	2019.8	2016.4	2021.5
27.5°	1957.1	1948.6	1948.6	1941.8	1946.9
30°	1877.5	1871.5	1866.5	1859.7	1863.1
32.5°	1787.7	1785.2	1777.5	1770.8	1772.5
35°	1700.5	1693.7	1686.9	1676.8	1671.7
37.5°	1600.6	1593.8	1585.3	1570.9	1569.3
40°	1499.0	1493.0	1479.4	1464.2	1465.1
42.5°	1402.4	1393.1	1376.1	1355.8	1351.6
45°	1285.5	1280.4	1262.7	1243.2	1239.0
47.5°	1181.3	1178.0	1156.0	1135.6	1130.6
50°	1077.2	1067.9	1049.2	1028.9	1018.0
52.5°	974.7	962.9	939.2	925.6	920.6
55°	874.0	863.8	843.5	822.3	817.2
57.5°	780.0	768.9	744.4	729.1	726.6
60°	690.2	680.0	653.7	642.8	641.9
62.5°	610.6	593.6	575.9	568.2	569.1
65°	533.5	516.5	497.9	496.2	501.3
67.5°	465.8	448.0	429.3	436.1	441.2
70°	397.2	384.5	374.3	385.3	392.1
72.5°	338.7	331.2	321.8	337.0	345.5
75°	292.1	282.0	276.9	290.4	302.3
77.5°	242.2	233.8	233.8	248.1	260.9
80°	196.4	190.6	191.4	208.3	216.0
82.5°	154.1	145.7	146.5	167.7	172.7
85°	108.4	101.7	102.5	120.3	119.4
87.5°	56.8	54.2	56.8	69.4	66.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)