

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: P219070

Luminaire Tested: **24GR-LD5-34-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219070  
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-LD5-34-F1-UNV-L950-CD1-U  
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

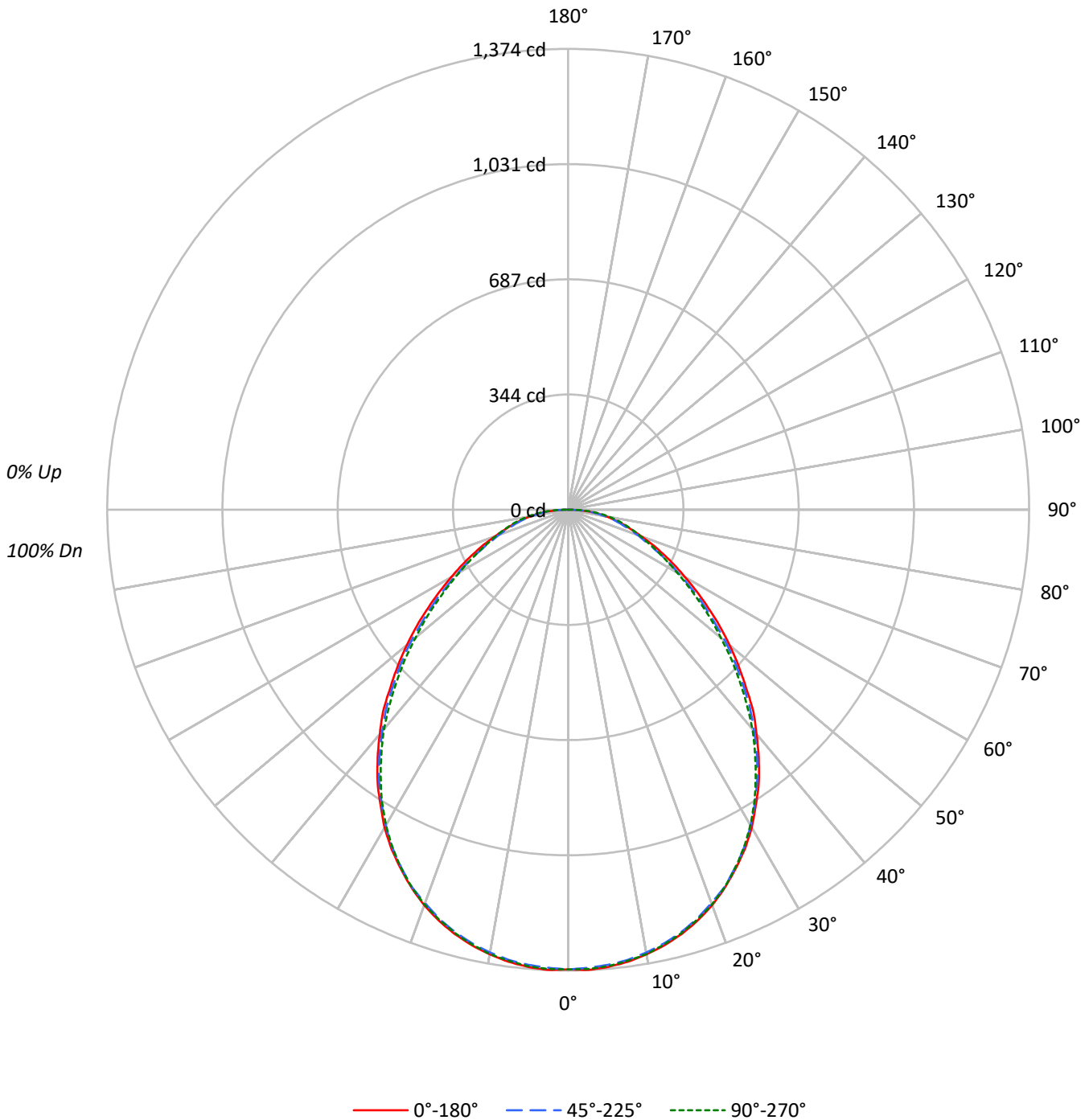
Lumens per Lamp: N/A  
Luminaire Lumens: 3201.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.756  
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	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°	2099	2099	2099
5°	2104	2094	2100
10°	2094	2085	2092
15°	2076	2067	2071
20°	2046	2033	2042
25°	1996	1989	1991
30°	1935	1924	1920
35°	1853	1838	1822
40°	1746	1724	1707
45°	1623	1594	1564
50°	1496	1457	1413
55°	1360	1313	1272
60°	1232	1167	1146
65°	1127	1052	1059
70°	1037	977	1023
75°	1008	955	1043
80°	1010	984	1110
85°	1111	1049	1223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.5	4.0
10°-20°	367.5	11.5
20°-30°	541.5	16.9
30°-40°	612.4	19.1
40°-50°	568.0	17.7
50°-60°	441.3	13.8
60°-70°	295.9	9.2
70°-80°	177.4	5.5
80°-90°	67.5	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°	1038.5	32.4
0°-40°	1650.9	51.6
0°-60°	2660.3	83.1
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1368	1365	1362	1361	1366	130
15°	1309	1304	1303	1301	1306	369
25°	1181	1180	1177	1175	1178	544
35°	991	987	983	977	974	618
45°	749	746	736	724	722	579
55°	509	503	492	479	476	457
65°	311	301	290	289	292	310
75°	170	164	161	169	176	180
85°	63	59	60	70	70	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1370.6	1370.6	1370.6	1370.6	1370.6
2.5°	1373.5	1369.1	1367.1	1366.1	1370.6
5°	1368.5	1364.6	1362.2	1361.2	1366.1
7.5°	1359.7	1355.3	1353.8	1351.8	1356.7
10°	1346.3	1342.4	1340.4	1339.0	1345.3
12.5°	1329.6	1326.1	1324.1	1323.1	1327.1
15°	1309.3	1303.9	1303.4	1300.9	1306.4
17.5°	1284.2	1279.3	1278.3	1277.3	1280.7
20°	1255.1	1250.2	1247.6	1247.2	1252.6
22.5°	1220.0	1216.6	1217.6	1214.6	1218.5
25°	1181.0	1179.5	1177.1	1175.1	1178.1
27.5°	1140.6	1135.6	1135.6	1131.7	1134.6
30°	1094.2	1090.7	1087.7	1083.8	1085.8
32.5°	1041.9	1040.4	1035.9	1031.9	1032.9
35°	991.0	987.1	983.1	977.2	974.2
37.5°	932.8	928.8	923.9	915.5	914.6
40°	873.5	870.1	862.2	853.3	853.9
42.5°	817.3	811.9	802.0	790.2	787.7
45°	749.2	746.2	735.8	724.5	722.0
47.5°	688.5	686.5	673.7	661.8	658.8
50°	627.8	622.3	611.5	599.6	593.2
52.5°	568.0	561.1	547.4	539.4	536.4
55°	509.3	503.4	491.6	479.2	476.3
57.5°	454.5	448.1	433.8	425.0	423.4
60°	402.2	396.3	381.0	374.6	374.1
62.5°	355.8	346.0	335.6	331.1	331.7
65°	310.9	301.0	290.2	289.2	292.2
67.5°	271.5	261.1	250.2	254.2	257.2
70°	231.5	224.0	218.1	224.6	228.5
72.5°	197.4	193.0	187.6	196.5	201.4
75°	170.3	164.3	161.3	169.3	176.2
77.5°	141.1	136.2	136.2	144.6	152.0
80°	114.5	111.0	111.6	121.4	125.9
82.5°	89.8	84.9	85.4	97.7	100.6
85°	63.2	59.2	59.7	70.1	69.6
87.5°	33.0	31.6	33.0	40.5	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)