

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: P219077

Luminaire Tested: **24GR-LD5-85-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219077
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-LD5-85-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: 7928.1 lumens
Efficiency: N/A
Efficacy: 112.7 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

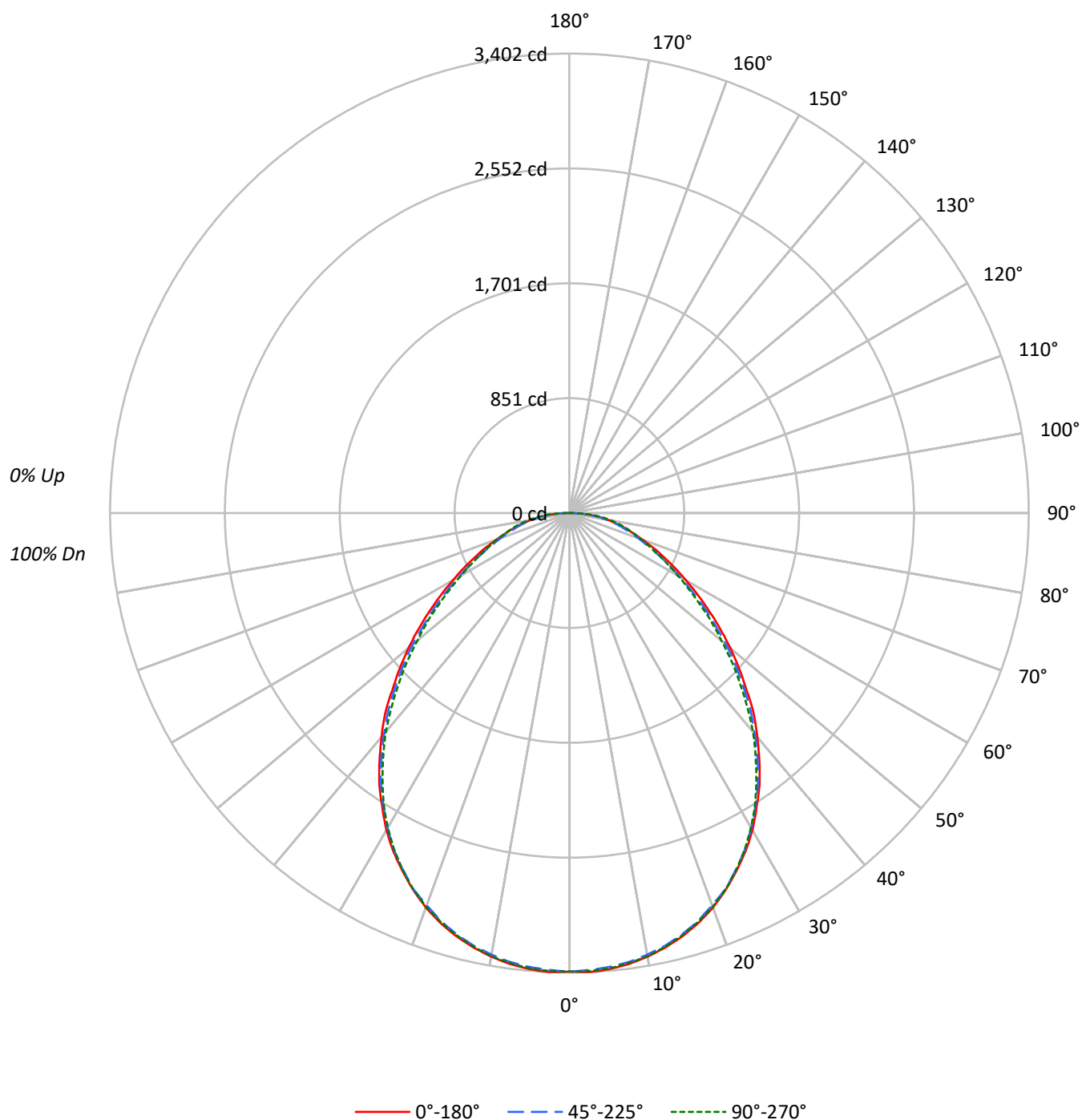
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			94	92	90			91
2	100	92	86	80	98	90	85	80		87	82	78			84	80	76			81
3	92	82	74	68	89	80	73	67		77	71	66			75	69	65			72
4	85	73	65	58	82	72	64	58		69	63	57			67	61	57			65
5	78	66	57	51	76	65	57	51		63	56	50			61	55	50			59
6	72	60	51	45	71	59	51	45		57	50	44			55	49	44			54
7	67	54	46	40	66	54	46	40		52	45	40			51	44	39			49
8	63	50	42	36	61	49	41	36		48	41	36			47	40	36			46
9	59	46	38	33	58	45	38	33		44	37	32			43	37	32			42
10	55	43	35	30	54	42	35	30		41	34	30			40	34	29			39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5199	5199	5199
5°	5211	5187	5202
10°	5186	5163	5182
15°	5142	5119	5131
20°	5067	5037	5057
25°	4943	4927	4931
30°	4793	4765	4756
35°	4589	4553	4512
40°	4326	4270	4228
45°	4019	3948	3874
50°	3705	3609	3501
55°	3368	3251	3150
60°	3052	2891	2838
65°	2791	2605	2622
70°	2567	2420	2534
75°	2496	2365	2582
80°	2501	2437	2749
85°	2748	2599	3030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	4.0
10°-20°	910.2	11.5
20°-30°	1341.2	16.9
30°-40°	1516.8	19.1
40°-50°	1406.9	17.7
50°-60°	1093.0	13.8
60°-70°	732.9	9.2
70°-80°	439.2	5.5
80°-90°	167.1	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°	2572.1	32.4
0°-40°	4088.9	51.6
0°-60°	6588.8	83.1
0°-90°	7928.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7928.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3394	3394	3394	3394	3394	
5°	3390	3380	3374	3371	3384	322
15°	3243	3229	3228	3222	3236	914
25°	2925	2921	2915	2910	2918	1346
35°	2454	2445	2435	2420	2413	1530
45°	1856	1848	1822	1794	1788	1435
55°	1261	1247	1218	1187	1180	1132
65°	770	746	719	716	724	769
75°	422	407	400	419	436	446
85°	156	147	148	174	172	164
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3394.5	3394.5	3394.5	3394.5	3394.5
2.5°	3401.8	3390.8	3385.9	3383.5	3394.5
5°	3389.6	3379.8	3373.6	3371.3	3383.5
7.5°	3367.5	3356.5	3352.9	3348.0	3360.3
10°	3334.6	3324.8	3319.9	3316.2	3332.1
12.5°	3293.0	3284.5	3279.5	3277.1	3286.9
15°	3242.9	3229.4	3228.2	3222.1	3235.6
17.5°	3180.5	3168.3	3165.9	3163.4	3172.0
20°	3108.5	3096.2	3090.1	3088.9	3102.3
22.5°	3021.7	3013.1	3015.6	3008.2	3018.0
25°	2925.1	2921.4	2915.3	2910.5	2917.7
27.5°	2824.8	2812.6	2812.6	2802.8	2810.2
30°	2710.0	2701.4	2694.1	2684.3	2689.1
32.5°	2580.4	2576.7	2565.7	2555.9	2558.4
35°	2454.5	2444.7	2434.9	2420.2	2413.0
37.5°	2310.2	2300.5	2288.2	2267.4	2265.0
40°	2163.5	2155.0	2135.4	2113.5	2114.7
42.5°	2024.2	2010.7	1986.3	1957.0	1950.9
45°	1855.5	1848.2	1822.5	1794.4	1788.3
47.5°	1705.2	1700.2	1668.5	1639.2	1631.8
50°	1554.8	1541.4	1514.5	1485.1	1469.3
52.5°	1407.0	1389.8	1355.6	1336.1	1328.7
55°	1261.4	1246.8	1217.5	1186.9	1179.5
57.5°	1125.8	1109.9	1074.4	1052.4	1048.8
60°	996.2	981.5	943.7	927.7	926.6
62.5°	881.3	856.9	831.2	820.2	821.5
65°	770.0	745.7	718.7	716.3	723.6
67.5°	672.3	646.6	619.7	629.5	636.8
70°	573.3	554.9	540.3	556.2	565.9
72.5°	488.9	477.9	464.5	486.5	498.7
75°	421.7	407.0	399.7	419.2	436.3
77.5°	349.6	337.3	337.3	358.2	376.5
80°	283.6	275.0	276.3	300.7	311.7
82.5°	222.5	210.2	211.5	242.1	249.3
85°	156.4	146.7	147.9	173.5	172.4
87.5°	81.9	78.3	81.9	100.2	95.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)