

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: P219122

Luminaire Tested: **24GR-LD5-85-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7580.3 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

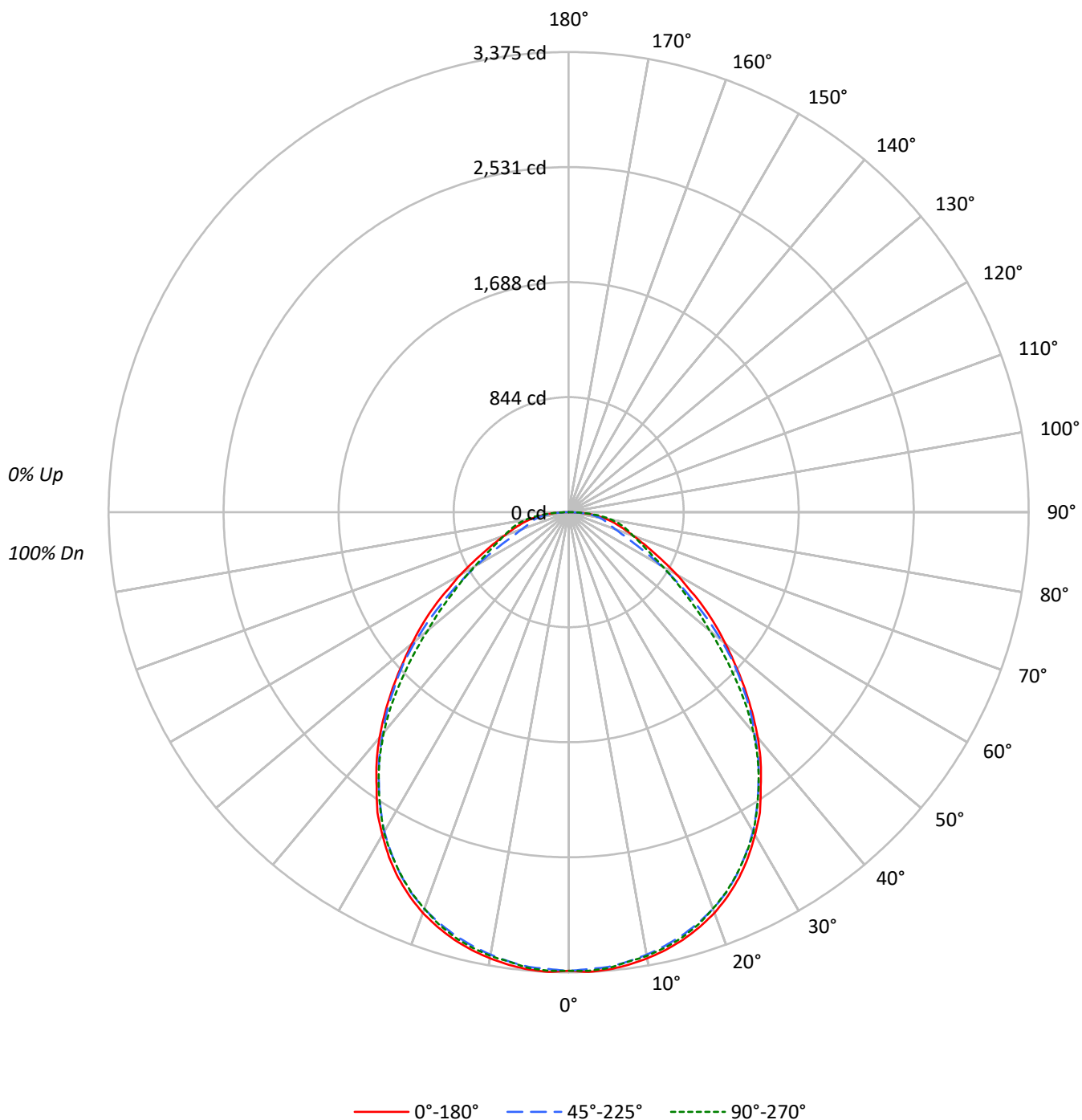
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96		99	96	93			95	93	90			91
2	101	93	87	82	98	91	86	81		88	83	79			85	81	77			82
3	93	83	75	69	90	81	74	69		79	73	68			76	71	67			73
4	86	74	66	60	83	73	65	60		71	64	59			68	63	58			66
5	79	67	59	53	77	66	58	52		64	57	52			62	56	51			60
6	73	61	53	46	72	60	52	46		58	51	46			57	50	45			55
7	68	56	47	42	67	55	47	41		53	46	41			52	46	41			51
8	64	51	43	37	62	50	43	37		49	42	37			48	41	37			47
9	60	47	39	34	58	46	39	34		45	38	34			44	38	33			43
10	56	44	36	31	55	43	36	31		42	35	31			41	35	31			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5151	5151	5151
5°	5176	5148	5160
10°	5167	5125	5140
15°	5147	5095	5118
20°	5098	5047	5045
25°	4999	4946	4942
30°	4834	4784	4795
35°	4592	4539	4546
40°	4318	4243	4217
45°	3957	3904	3749
50°	3577	3480	3217
55°	3212	2924	2774
60°	2812	2353	2440
65°	2453	1850	2245
70°	2244	1615	2244
75°	2245	1719	2474
80°	2438	2024	2820
85°	2675	2283	3026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.5	4.2
10°-20°	908.9	12.0
20°-30°	1347.7	17.8
30°-40°	1520.4	20.1
40°-50°	1377.1	18.2
50°-60°	993.5	13.1
60°-70°	593.2	7.8
70°-80°	366.6	4.8
80°-90°	154.4	2.0
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°	2575.2	34.0
0°-40°	4095.6	54.0
0°-60°	6466.1	85.3
0°-90°	7580.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7580.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3363	3363	3363	3363	3363	
5°	3367	3362	3348	3344	3356	320
15°	3246	3226	3213	3215	3228	915
25°	2958	2942	2926	2916	2924	1359
35°	2456	2452	2428	2429	2431	1536
45°	1827	1815	1802	1758	1731	1408
55°	1203	1165	1095	1041	1039	1074
65°	677	596	511	580	620	681
75°	379	329	290	362	418	405
85°	152	134	130	170	172	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3363.3	3363.3	3363.3	3363.3	3363.3
2.5°	3375.0	3365.6	3353.9	3361.0	3366.8
5°	3366.8	3362.2	3348.1	3344.5	3356.2
7.5°	3349.3	3337.6	3324.7	3330.5	3325.8
10°	3322.4	3311.8	3295.3	3296.6	3304.7
12.5°	3289.5	3276.7	3259.1	3263.8	3270.8
15°	3246.2	3226.3	3213.4	3214.6	3227.5
17.5°	3191.1	3175.9	3159.6	3163.1	3168.9
20°	3127.9	3119.7	3096.3	3089.3	3095.1
22.5°	3048.3	3033.0	3020.1	3016.7	3017.8
25°	2958.1	2941.7	2926.5	2915.9	2924.2
27.5°	2852.7	2838.7	2818.7	2815.2	2822.3
30°	2733.3	2722.8	2705.1	2700.5	2711.0
32.5°	2611.5	2593.9	2569.3	2569.3	2571.7
35°	2455.7	2452.2	2427.6	2428.8	2431.1
37.5°	2315.2	2298.8	2284.8	2270.7	2277.7
40°	2159.5	2140.7	2122.0	2112.6	2109.1
42.5°	1992.0	1977.9	1969.7	1935.8	1927.6
45°	1826.9	1815.1	1802.3	1757.8	1730.8
47.5°	1658.3	1655.9	1645.4	1566.9	1539.9
50°	1501.3	1497.8	1460.3	1377.2	1350.2
52.5°	1352.6	1329.1	1279.9	1198.0	1193.3
55°	1202.7	1165.2	1095.0	1041.1	1038.7
57.5°	1044.6	1000.1	928.6	899.4	914.6
60°	918.1	850.2	768.2	771.8	796.4
62.5°	787.0	710.9	630.0	665.1	694.4
65°	676.9	596.1	510.6	579.6	619.5
67.5°	580.8	505.9	423.9	516.4	555.0
70°	501.2	440.3	360.7	457.9	501.2
72.5°	438.0	381.8	319.7	411.1	461.4
75°	379.4	329.0	290.4	361.9	418.0
77.5°	329.0	279.8	262.3	319.7	374.7
80°	276.4	231.9	229.5	278.7	319.7
82.5°	215.5	185.0	185.0	233.1	257.7
85°	152.2	133.5	129.9	169.8	172.2
87.5°	78.4	74.9	67.9	89.0	89.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)