

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: P219242

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219242
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-A19/156-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7292.2 lumens
Efficiency: N/A
Efficacy: 103.7 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

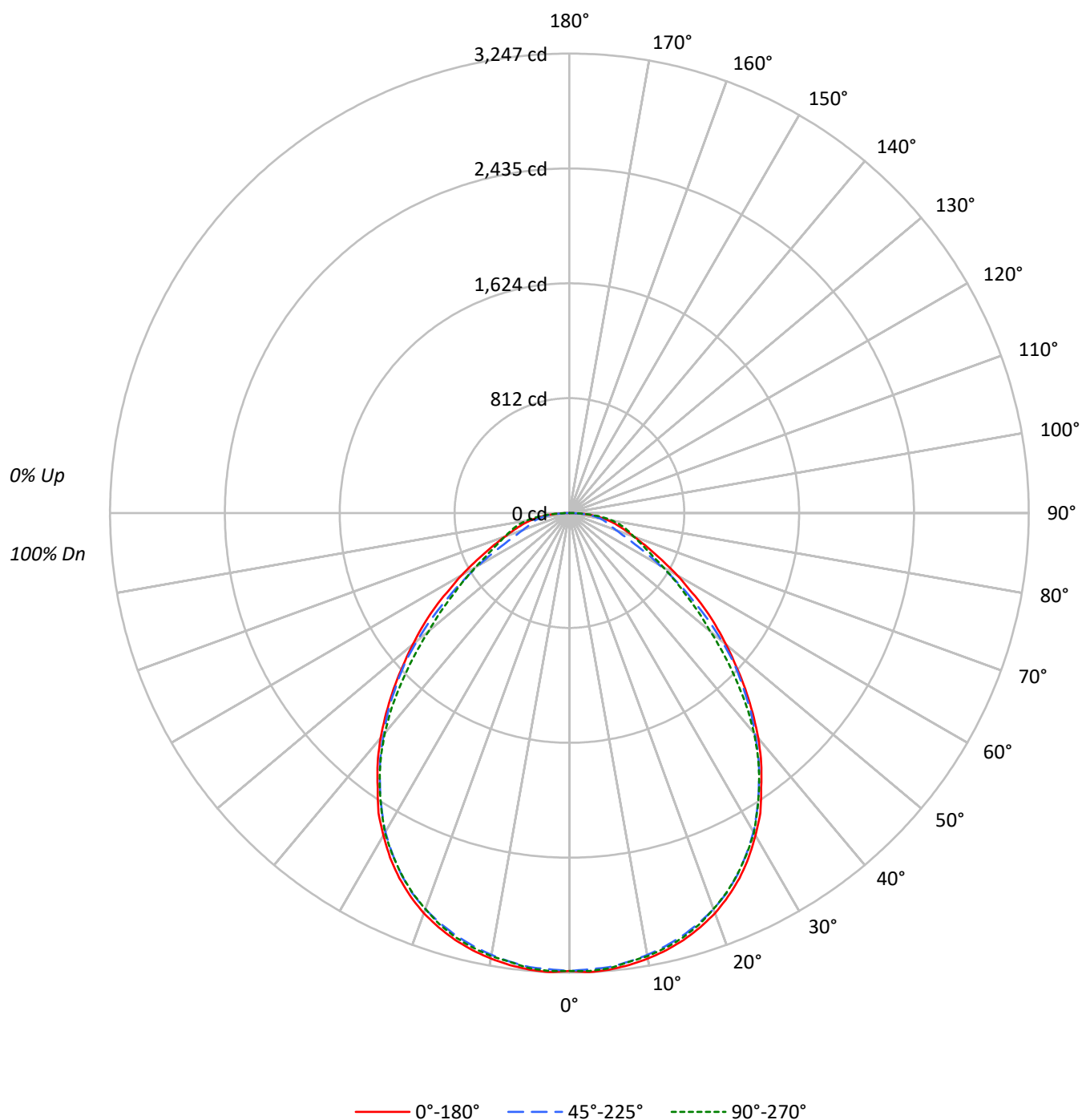
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98		107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82		98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69		90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60		83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53		77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46		72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42		67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37		62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34		58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31		55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4956	4956	4956
5°	4980	4952	4964
10°	4971	4930	4944
15°	4952	4902	4923
20°	4905	4855	4853
25°	4809	4758	4754
30°	4650	4603	4612
35°	4417	4366	4373
40°	4154	4081	4057
45°	3807	3755	3606
50°	3441	3347	3095
55°	3090	2813	2668
60°	2705	2264	2347
65°	2360	1780	2160
70°	2159	1554	2159
75°	2160	1653	2380
80°	2344	1948	2712
85°	2575	2197	2910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	4.2
10°-20°	874.4	12.0
20°-30°	1296.5	17.8
30°-40°	1462.6	20.1
40°-50°	1324.7	18.2
50°-60°	955.7	13.1
60°-70°	570.6	7.8
70°-80°	352.7	4.8
80°-90°	148.6	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°	2477.3	34.0
0°-40°	3939.9	54.0
0°-60°	6220.3	85.3
0°-90°	7292.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7292.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3236	3236	3236	3236	3236	
5°	3239	3234	3221	3217	3229	308
15°	3123	3104	3091	3092	3105	880
25°	2846	2830	2815	2805	2813	1307
35°	2362	2359	2335	2336	2339	1478
45°	1757	1746	1734	1691	1665	1354
55°	1157	1121	1053	1002	999	1033
65°	651	573	491	558	596	655
75°	365	317	279	348	402	390
85°	146	128	125	163	166	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3235.5	3235.5	3235.5	3235.5	3235.5
2.5°	3246.8	3237.7	3226.5	3233.3	3238.8
5°	3238.8	3234.4	3220.9	3217.4	3228.7
7.5°	3222.0	3210.7	3198.3	3203.9	3199.5
10°	3196.0	3186.0	3170.1	3171.2	3179.2
12.5°	3164.5	3152.2	3135.2	3139.7	3146.5
15°	3122.8	3103.7	3091.3	3092.4	3104.8
17.5°	3069.9	3055.2	3039.5	3042.9	3048.4
20°	3009.1	3001.1	2978.6	2971.9	2977.5
22.5°	2932.4	2917.8	2905.4	2902.0	2903.2
25°	2845.7	2829.9	2815.3	2805.1	2813.1
27.5°	2744.3	2730.8	2711.7	2708.2	2715.0
30°	2629.4	2619.2	2602.4	2597.9	2608.0
32.5°	2512.2	2495.3	2471.6	2471.6	2474.0
35°	2362.4	2359.0	2335.3	2336.4	2338.8
37.5°	2227.2	2211.4	2197.9	2184.4	2191.2
40°	2077.4	2059.4	2041.3	2032.4	2028.9
42.5°	1916.3	1902.8	1894.8	1862.2	1854.3
45°	1757.4	1746.1	1733.8	1690.9	1665.0
47.5°	1595.2	1593.0	1582.8	1507.3	1481.4
50°	1444.3	1440.8	1404.8	1324.8	1298.9
52.5°	1301.2	1278.6	1231.3	1152.5	1147.9
55°	1157.0	1120.9	1053.3	1001.5	999.2
57.5°	1004.9	962.1	893.4	865.2	879.9
60°	883.2	817.9	739.0	742.4	766.1
62.5°	757.1	683.8	606.1	639.9	668.0
65°	651.2	573.4	491.1	557.6	596.0
67.5°	558.7	486.7	407.8	496.8	534.0
70°	482.2	423.6	347.0	440.5	482.2
72.5°	421.3	367.2	307.5	395.4	443.8
75°	365.0	316.6	279.4	348.1	402.2
77.5°	316.6	269.3	252.3	307.5	360.5
80°	265.8	223.1	220.8	268.1	307.5
82.5°	207.3	178.0	178.0	224.2	247.9
85°	146.5	128.4	125.0	163.3	165.6
87.5°	75.5	72.1	65.4	85.7	85.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)