

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: P219092

Luminaire Tested: **24GR-LD5-85-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219092
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-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6986.8 lumens
Efficiency: N/A
Efficacy: 99.3 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

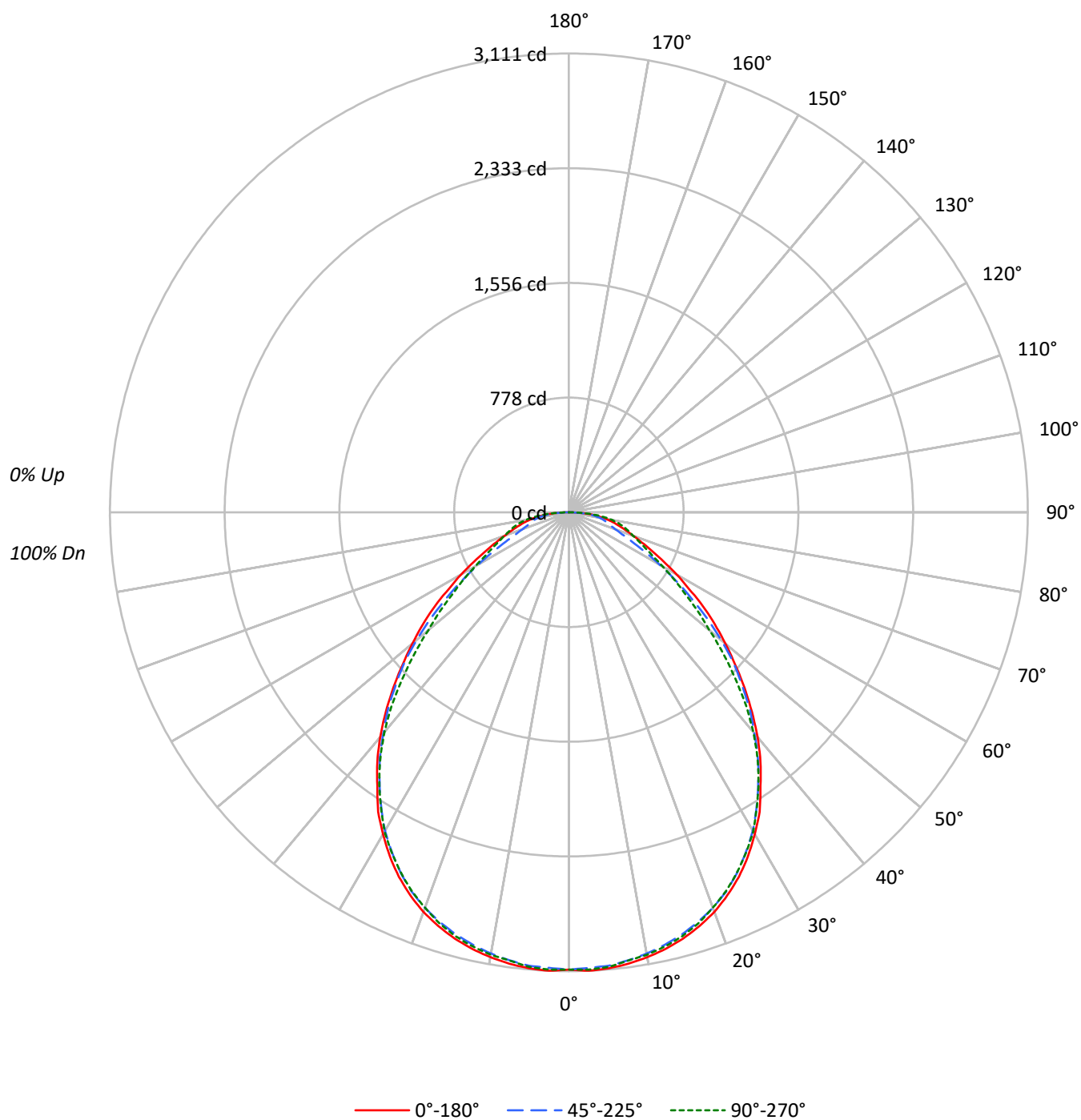
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4748	4748	4748
5°	4771	4744	4756
10°	4762	4724	4737
15°	4744	4696	4717
20°	4699	4651	4650
25°	4608	4559	4555
30°	4456	4410	4419
35°	4232	4184	4190
40°	3980	3911	3887
45°	3647	3598	3455
50°	3297	3207	2965
55°	2960	2695	2557
60°	2592	2169	2248
65°	2261	1706	2069
70°	2069	1489	2069
75°	2069	1584	2280
80°	2247	1866	2599
85°	2466	2105	2789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	4.2
10°-20°	837.8	12.0
20°-30°	1242.2	17.8
30°-40°	1401.4	20.1
40°-50°	1269.2	18.2
50°-60°	915.7	13.1
60°-70°	546.7	7.8
70°-80°	337.9	4.8
80°-90°	142.4	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°	2373.5	34.0
0°-40°	3774.9	54.0
0°-60°	5959.8	85.3
0°-90°	6986.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6986.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3100	3100	3100	3100	3100	
5°	3103	3099	3086	3083	3094	295
15°	2992	2974	2962	2963	2975	843
25°	2726	2711	2697	2688	2695	1253
35°	2263	2260	2238	2239	2241	1416
45°	1684	1673	1661	1620	1595	1298
55°	1109	1074	1009	960	957	990
65°	624	549	471	534	571	628
75°	350	303	268	334	385	373
85°	140	123	120	156	159	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3100.0	3100.0	3100.0	3100.0	3100.0
2.5°	3110.8	3102.1	3091.3	3097.8	3103.2
5°	3103.2	3098.9	3085.9	3082.7	3093.5
7.5°	3087.1	3076.2	3064.3	3069.8	3065.4
10°	3062.2	3052.4	3037.4	3038.4	3046.0
12.5°	3032.0	3020.1	3003.9	3008.3	3014.7
15°	2992.0	2973.6	2961.8	2962.9	2974.8
17.5°	2941.3	2927.2	2912.1	2915.4	2920.8
20°	2883.0	2875.5	2853.8	2847.4	2852.8
22.5°	2809.6	2795.6	2783.7	2780.5	2781.5
25°	2726.5	2711.4	2697.4	2687.6	2695.2
27.5°	2629.3	2616.4	2598.1	2594.8	2601.3
30°	2519.3	2509.5	2493.4	2489.0	2498.8
32.5°	2407.0	2390.8	2368.2	2368.2	2370.3
35°	2263.4	2260.2	2237.5	2238.6	2240.8
37.5°	2134.0	2118.8	2105.8	2092.9	2099.4
40°	1990.4	1973.1	1955.9	1947.2	1944.0
42.5°	1836.1	1823.1	1815.5	1784.2	1776.7
45°	1683.9	1673.0	1661.2	1620.2	1595.3
47.5°	1528.4	1526.3	1516.5	1444.2	1419.4
50°	1383.8	1380.6	1345.9	1269.4	1244.5
52.5°	1246.6	1225.1	1179.7	1104.2	1099.9
55°	1108.6	1074.0	1009.3	959.6	957.4
57.5°	962.8	921.8	855.9	828.9	843.0
60°	846.2	783.6	708.1	711.3	734.0
62.5°	725.4	655.2	580.7	613.1	640.1
65°	623.9	549.4	470.6	534.3	571.0
67.5°	535.4	466.3	390.7	476.0	511.6
70°	462.0	405.8	332.4	422.1	462.0
72.5°	403.7	351.9	294.7	378.8	425.3
75°	349.7	303.3	267.6	333.5	385.3
77.5°	303.3	258.0	241.8	294.7	345.4
80°	254.8	213.7	211.6	256.9	294.7
82.5°	198.6	170.6	170.6	214.8	237.5
85°	140.3	123.1	119.8	156.5	158.7
87.5°	72.3	69.0	62.6	82.0	82.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)