

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: P225598

Luminaire Tested: **22AC-LD5-34-SQP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P225598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35765)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-34-SQP-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2431.6 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

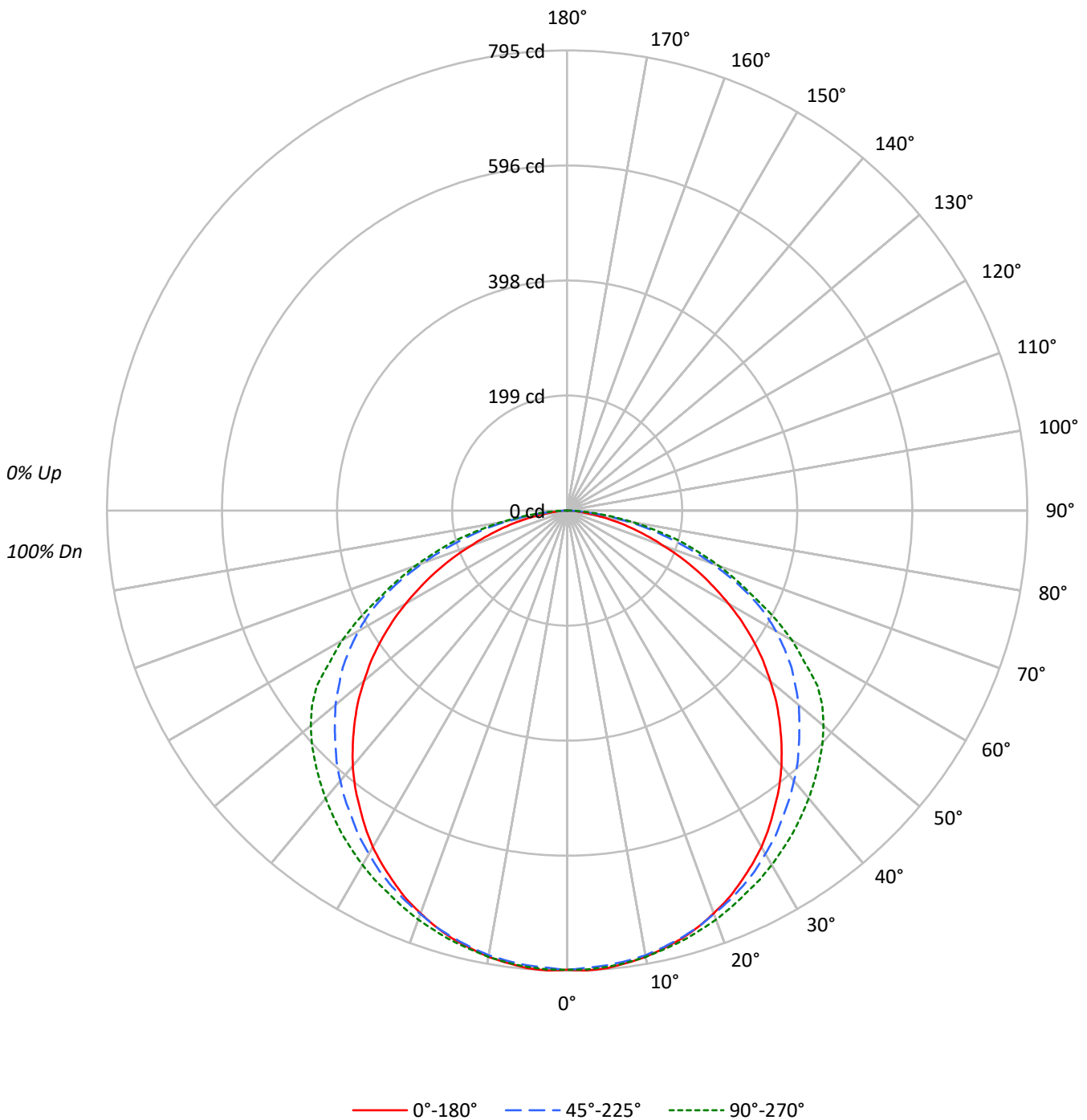
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2135	2135	2135
5°	2143	2130	2138
10°	2139	2131	2139
15°	2133	2127	2143
20°	2121	2123	2154
25°	2105	2127	2167
30°	2086	2128	2197
35°	2054	2129	2234
40°	2024	2142	2281
45°	1976	2156	2342
50°	1917	2186	2420
55°	1845	2220	2477
60°	1734	2241	2417
65°	1592	2223	2284
70°	1385	2088	2194
75°	1180	1880	2070
80°	894	1610	1788
85°	593	1068	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.1
10°-20°	216.2	8.9
20°-30°	331.2	13.6
30°-40°	407.7	16.8
40°-50°	438.2	18.0
50°-60°	416.0	17.1
60°-70°	322.4	13.3
70°-80°	182.0	7.5
80°-90°	42.9	1.8
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°	622.5	25.6
0°-40°	1030.2	42.4
0°-60°	1884.3	77.5
0°-90°	2431.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	793	790	789	790	792	75
15°	766	765	764	768	769	216
25°	709	711	716	725	730	327
35°	625	633	648	670	680	391
45°	519	535	566	602	616	400
55°	393	425	473	514	528	351
65°	250	292	349	356	359	247
75°	114	161	181	192	199	120
85°	19	28	35	39	40	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.4	793.4	793.4	793.4	793.4
2.5°	795.3	793.4	790.5	792.5	793.4
5°	793.4	790.5	788.6	789.6	791.5
7.5°	788.6	786.7	784.8	786.7	787.7
10°	782.8	780.9	780.0	781.9	782.8
12.5°	774.2	773.2	772.3	775.2	776.1
15°	765.5	764.6	763.6	767.5	769.4
17.5°	754.0	753.0	754.0	757.8	760.7
20°	740.5	740.5	741.5	748.2	752.1
22.5°	726.1	727.1	729.9	736.7	741.5
25°	708.8	710.7	716.5	725.1	729.9
27.5°	690.5	693.4	702.1	712.6	719.4
30°	671.3	675.1	684.7	699.2	706.9
32.5°	649.2	654.0	668.4	685.7	693.4
35°	625.1	632.8	648.2	670.3	679.9
37.5°	602.0	609.7	629.9	654.0	664.6
40°	576.1	585.7	609.7	636.7	649.2
42.5°	548.2	560.7	589.5	620.3	632.8
45°	519.3	534.7	566.5	602.0	615.5
47.5°	490.5	506.8	544.3	582.8	598.2
50°	457.8	478.9	522.2	561.6	578.0
52.5°	427.0	451.0	497.2	538.6	555.9
55°	393.3	425.1	473.2	513.6	528.0
57.5°	358.7	394.3	445.3	481.8	485.7
60°	322.2	359.7	416.4	442.4	449.1
62.5°	285.6	327.0	385.7	404.9	405.8
65°	250.0	292.4	349.1	355.8	358.7
67.5°	213.5	260.6	307.8	312.6	318.3
70°	176.0	227.9	265.4	275.1	278.9
72.5°	143.3	194.3	222.2	233.7	237.5
75°	113.5	160.6	180.8	192.3	199.1
77.5°	83.7	124.1	142.3	152.0	154.8
80°	57.7	87.5	103.9	111.6	115.4
82.5°	36.5	55.8	66.4	74.1	76.0
85°	19.2	27.9	34.6	39.4	40.4
87.5°	7.7	8.7	11.5	19.2	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)