

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: P474798

Luminaire Tested: **22CZ2-34HE-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474798
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,RIBBED LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3425.9 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

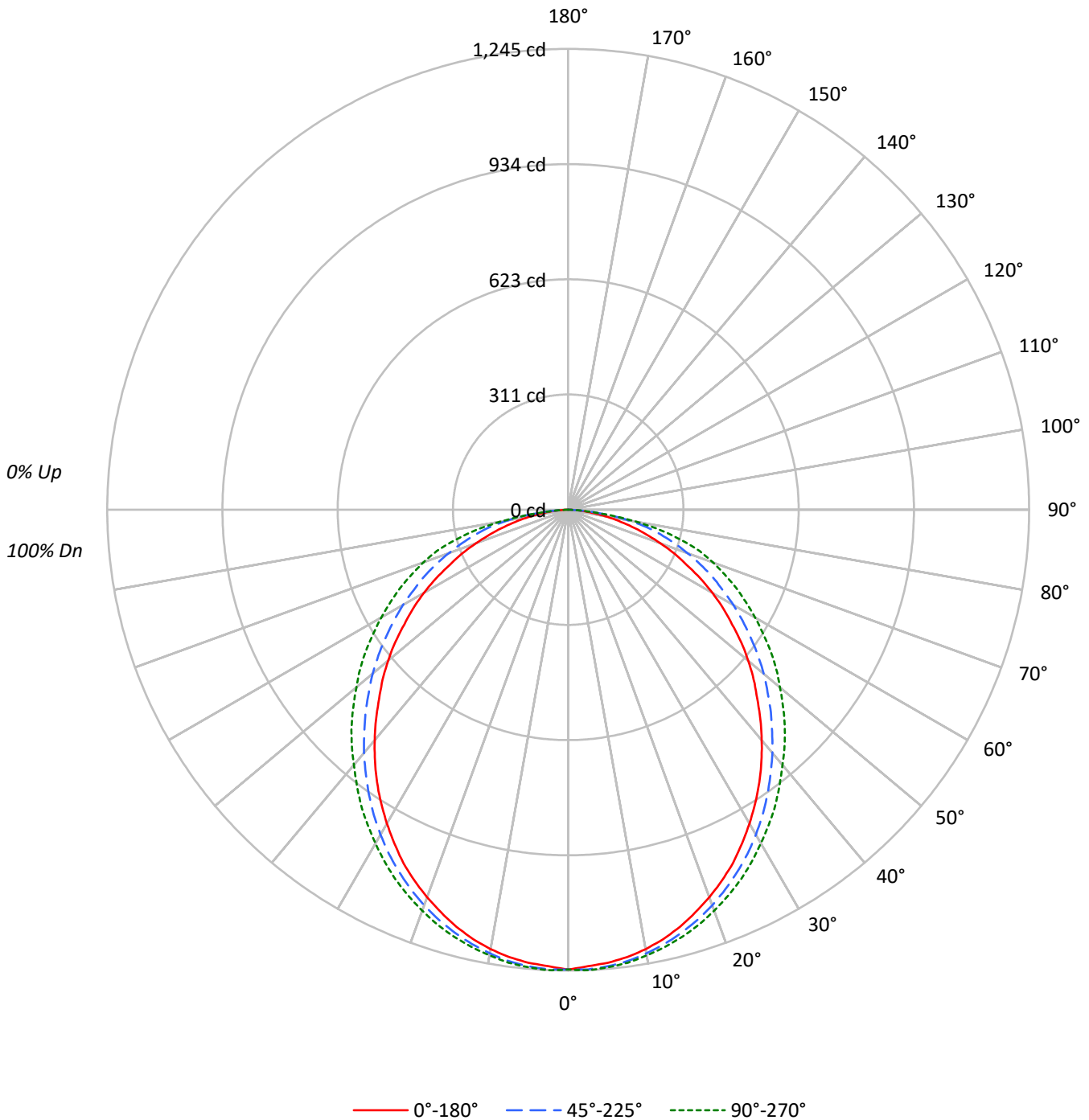
Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3343	3343	3343
5°	3319	3344	3352
10°	3294	3326	3341
15°	3249	3296	3326
20°	3191	3257	3301
25°	3128	3207	3274
30°	3042	3150	3235
35°	2956	3082	3204
40°	2856	3014	3164
45°	2747	2946	3149
50°	2658	2886	3125
55°	2534	2822	3132
60°	2420	2774	3140
65°	2250	2739	3190
70°	2079	2700	3270
75°	1859	2688	3290
80°	1559	2546	2872
85°	1207	1744	1633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	3.4
10°-20°	333.2	9.7
20°-30°	496.8	14.5
30°-40°	586.5	17.1
40°-50°	597.8	17.4
50°-60°	539.1	15.7
60°-70°	423.7	12.4
70°-80°	265.3	7.7
80°-90°	66.2	1.9
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°	947.4	27.7
0°-40°	1533.9	44.8
0°-60°	2670.8	78.0
0°-90°	3425.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1229	1232	1238	1241	1241	117
15°	1166	1171	1183	1192	1194	329
25°	1053	1061	1080	1097	1103	484
35°	900	912	938	964	975	562
45°	722	738	774	812	828	558
55°	540	557	602	648	668	485
65°	353	375	430	478	501	352
75°	179	206	258	305	316	190
85°	39	50	56	56	53	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1234.4	1237.3	1243.1	1245.3	1245.3
5°	1228.6	1231.5	1238.1	1240.9	1240.9
7.5°	1219.2	1222.1	1230.1	1233.7	1234.4
10°	1205.5	1209.1	1217.1	1222.8	1222.8
12.5°	1188.1	1191.7	1201.9	1209.1	1209.8
15°	1166.4	1171.4	1183.0	1191.7	1193.9
17.5°	1141.0	1149.0	1162.0	1172.9	1175.1
20°	1114.2	1122.2	1137.4	1149.7	1152.6
22.5°	1084.6	1091.8	1109.9	1125.1	1128.7
25°	1053.4	1061.4	1080.2	1096.9	1102.7
27.5°	1016.5	1025.9	1048.4	1067.2	1073.0
30°	978.9	990.4	1013.6	1034.6	1041.1
32.5°	940.5	951.3	977.4	999.9	1008.5
35°	899.9	911.5	938.3	964.4	975.2
37.5°	857.2	868.8	897.8	927.5	937.6
40°	813.1	826.8	857.9	889.8	900.7
42.5°	768.2	782.7	815.2	850.7	865.2
45°	721.8	737.8	774.0	811.6	827.5
47.5°	679.8	692.9	730.5	771.8	787.0
50°	635.0	647.3	689.3	730.5	746.5
52.5°	589.3	600.9	645.8	689.3	708.8
55°	540.1	556.8	601.6	648.0	667.5
57.5°	496.7	511.9	558.2	605.3	624.1
60°	449.6	465.5	515.5	563.3	583.5
62.5°	402.5	419.9	470.6	522.0	540.8
65°	353.3	375.0	430.1	477.8	501.0
67.5°	311.3	332.3	386.6	436.6	456.8
70°	264.3	288.9	343.2	393.9	415.6
72.5°	220.1	244.7	300.5	351.1	372.9
75°	178.8	205.6	258.5	304.8	316.4
77.5°	139.0	164.3	217.2	244.0	256.3
80°	100.6	125.3	164.3	182.4	185.3
82.5°	68.1	89.1	111.5	116.6	113.7
85°	39.1	50.0	56.5	56.5	52.9
87.5°	15.9	15.9	13.8	8.7	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)