

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: P474796

Luminaire Tested: **22CZ2-24HE-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474796
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-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: 2473.9 lumens
Efficiency: N/A
Efficacy: 136.7 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

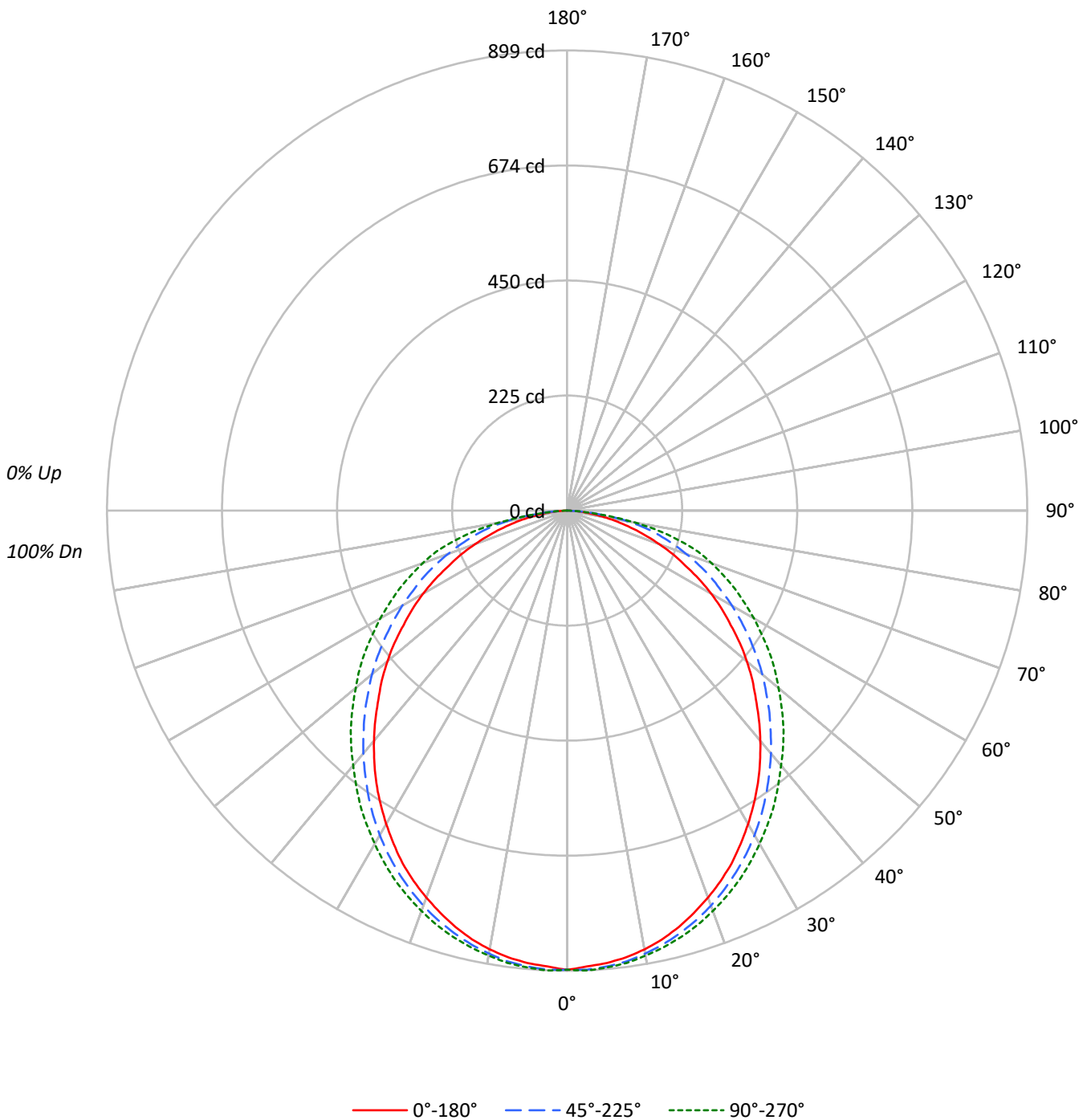
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2414	2414	2414
5°	2397	2415	2421
10°	2379	2402	2413
15°	2347	2380	2402
20°	2304	2352	2383
25°	2259	2316	2364
30°	2197	2275	2336
35°	2135	2226	2313
40°	2062	2176	2285
45°	1984	2127	2274
50°	1919	2084	2256
55°	1830	2038	2261
60°	1748	2004	2268
65°	1624	1978	2304
70°	1501	1950	2361
75°	1342	1940	2376
80°	1127	1839	2073
85°	871	1260	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.4
10°-20°	240.6	9.7
20°-30°	358.8	14.5
30°-40°	423.5	17.1
40°-50°	431.7	17.4
50°-60°	389.3	15.7
60°-70°	306.0	12.4
70°-80°	191.6	7.7
80°-90°	47.8	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°	684.2	27.7
0°-40°	1107.7	44.8
0°-60°	1928.6	78.0
0°-90°	2473.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2473.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	887	889	894	896	896	84
15°	842	846	854	861	862	237
25°	761	766	780	792	796	350
35°	650	658	678	696	704	406
45°	521	533	559	586	598	403
55°	390	402	434	468	482	350
65°	255	271	311	345	362	254
75°	129	148	187	220	228	137
85°	28	36	41	41	38	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.2	897.2	897.2	897.2	897.2
2.5°	891.4	893.5	897.7	899.3	899.3
5°	887.2	889.3	894.0	896.1	896.1
7.5°	880.4	882.5	888.3	890.9	891.4
10°	870.5	873.1	878.9	883.0	883.0
12.5°	858.0	860.6	867.9	873.1	873.6
15°	842.3	845.9	854.3	860.6	862.1
17.5°	824.0	829.7	839.1	847.0	848.5
20°	804.6	810.4	821.4	830.2	832.3
22.5°	783.2	788.4	801.5	812.5	815.1
25°	760.7	766.5	780.1	792.1	796.3
27.5°	734.0	740.8	757.0	770.6	774.8
30°	706.9	715.2	732.0	747.1	751.8
32.5°	679.1	687.0	705.8	722.0	728.3
35°	649.9	658.2	677.6	696.4	704.2
37.5°	619.0	627.4	648.3	669.7	677.1
40°	587.1	597.1	619.5	642.5	650.4
42.5°	554.7	565.2	588.7	614.3	624.8
45°	521.3	532.8	558.9	586.1	597.6
47.5°	490.9	500.3	527.5	557.3	568.3
50°	458.5	467.4	497.7	527.5	539.0
52.5°	425.6	433.9	466.4	497.7	511.8
55°	390.0	402.1	434.5	467.9	482.0
57.5°	358.7	369.6	403.1	437.1	450.7
60°	324.7	336.2	372.3	406.8	421.4
62.5°	290.7	303.2	339.8	377.0	390.5
65°	255.1	270.8	310.6	345.1	361.8
67.5°	224.8	240.0	279.2	315.3	329.9
70°	190.8	208.6	247.8	284.4	300.1
72.5°	158.9	176.7	217.0	253.6	269.3
75°	129.1	148.5	186.6	220.1	228.5
77.5°	100.4	118.7	156.8	176.2	185.1
80°	72.7	90.4	118.7	131.8	133.8
82.5°	49.1	64.3	80.5	84.2	82.1
85°	28.2	36.1	40.8	40.8	38.2
87.5°	11.5	11.5	9.9	6.3	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)