

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: P474791

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474791
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, RIBBED LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2453.9 lumens
Efficiency: N/A
Efficacy: 132.6 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

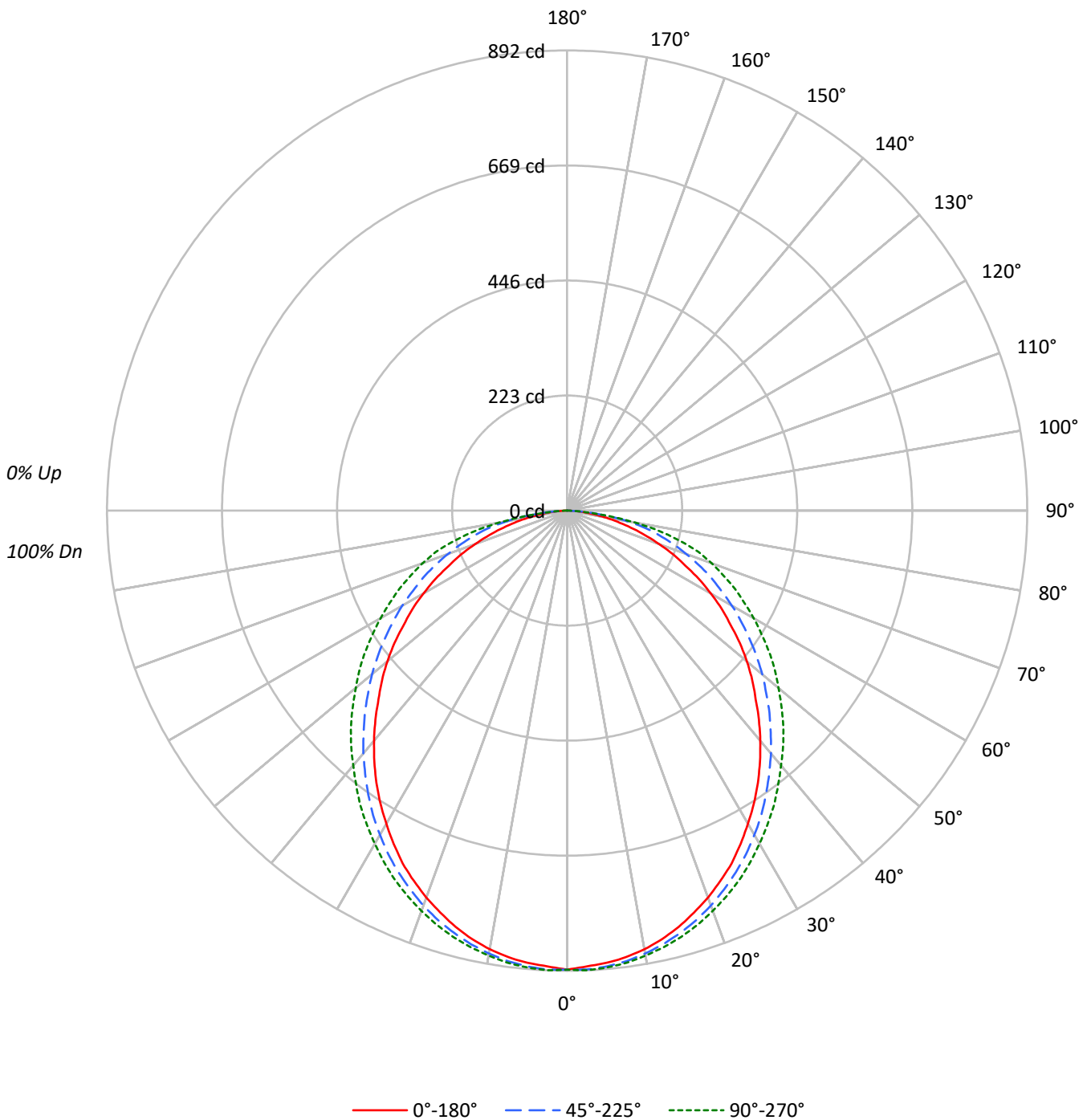
Input Watts (W): 18.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2395	2395	2395
5°	2377	2395	2401
10°	2360	2382	2393
15°	2328	2361	2383
20°	2286	2333	2364
25°	2241	2297	2345
30°	2179	2256	2317
35°	2118	2208	2295
40°	2046	2159	2266
45°	1968	2110	2256
50°	1904	2067	2238
55°	1815	2022	2243
60°	1733	1987	2250
65°	1612	1961	2285
70°	1489	1934	2342
75°	1332	1925	2356
80°	1117	1824	2058
85°	865	1250	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	3.4
10°-20°	238.7	9.7
20°-30°	355.9	14.5
30°-40°	420.1	17.1
40°-50°	428.2	17.4
50°-60°	386.1	15.7
60°-70°	303.5	12.4
70°-80°	190.0	7.7
80°-90°	47.4	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°	678.6	27.7
0°-40°	1098.7	44.8
0°-60°	1913.0	78.0
0°-90°	2453.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	880	882	887	889	889	83
15°	836	839	847	854	855	235
25°	755	760	774	786	790	347
35°	645	653	672	691	698	403
45°	517	528	554	581	593	400
55°	387	399	431	464	478	347
65°	253	269	308	342	359	252
75°	128	147	185	218	227	136
85°	28	36	40	40	38	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.9	889.9	889.9	889.9	889.9
2.5°	884.2	886.3	890.4	892.0	892.0
5°	880.1	882.1	886.8	888.9	888.9
7.5°	873.3	875.4	881.1	883.7	884.2
10°	863.5	866.1	871.8	875.9	875.9
12.5°	851.0	853.6	860.9	866.1	866.6
15°	835.5	839.1	847.4	853.6	855.2
17.5°	817.3	823.0	832.3	840.1	841.7
20°	798.1	803.8	814.7	823.5	825.6
22.5°	776.9	782.0	795.0	805.9	808.5
25°	754.6	760.3	773.7	785.7	789.8
27.5°	728.1	734.9	750.9	764.4	768.6
30°	701.1	709.4	726.0	741.1	745.7
32.5°	673.7	681.4	700.1	716.2	722.4
35°	644.6	652.9	672.1	690.8	698.5
37.5°	614.0	622.3	643.1	664.3	671.6
40°	582.4	592.2	614.5	637.4	645.1
42.5°	550.2	560.6	583.9	609.4	619.7
45°	517.0	528.5	554.4	581.3	592.8
47.5°	487.0	496.3	523.3	552.8	563.7
50°	454.8	463.6	493.7	523.3	534.7
52.5°	422.1	430.4	462.6	493.7	507.7
55°	386.9	398.8	431.0	464.1	478.1
57.5°	355.8	366.6	399.8	433.5	447.0
60°	322.0	333.5	369.2	403.5	418.0
62.5°	288.3	300.8	337.1	373.9	387.4
65°	253.1	268.6	308.0	342.3	358.9
67.5°	223.0	238.0	276.9	312.7	327.2
70°	189.3	206.9	245.8	282.1	297.7
72.5°	157.7	175.3	215.2	251.5	267.1
75°	128.1	147.3	185.1	218.3	226.6
77.5°	99.6	117.7	155.6	174.8	183.6
80°	72.1	89.7	117.7	130.7	132.8
82.5°	48.7	63.8	79.9	83.5	81.4
85°	28.0	35.8	40.5	40.5	37.9
87.5°	11.4	11.4	9.9	6.2	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)