

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: P474211

Luminaire Tested: **24CZ2-30-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474211
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-RDP-UNV-L835-CD1-U
Description: 2'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

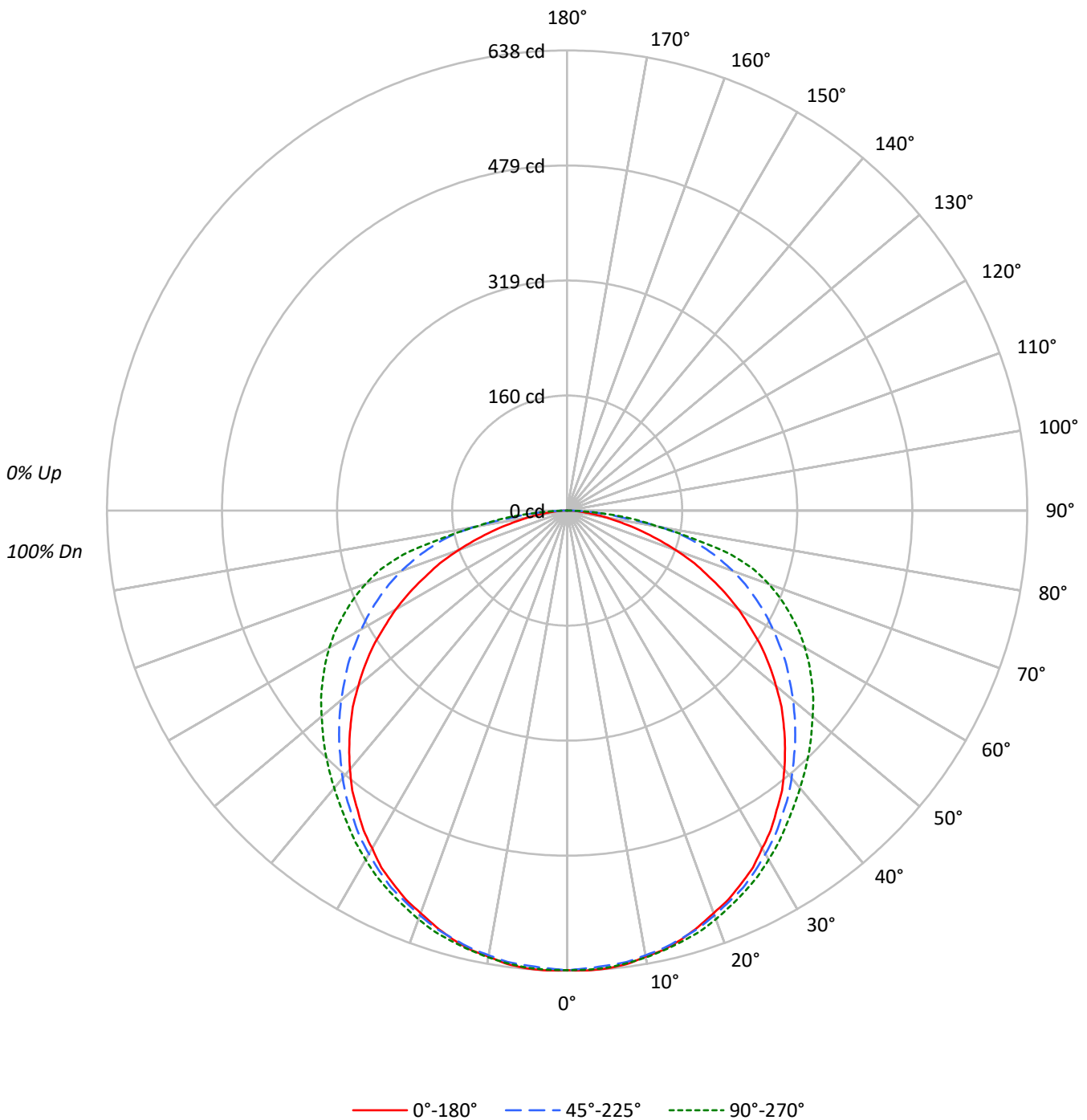
Lumens per Lamp: N/A
Luminaire Lumens: 2026.1 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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	103	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	857	857	857
5°	861	855	859
10°	858	855	860
15°	857	855	861
20°	850	855	863
25°	847	856	865
30°	840	854	868
35°	832	852	872
40°	823	851	882
45°	809	851	903
50°	791	856	930
55°	771	870	971
60°	738	887	1025
65°	691	918	1088
70°	629	961	1170
75°	533	1014	1223
80°	421	1020	989
85°	310	777	869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.0
10°-20°	174.0	8.6
20°-30°	266.0	13.1
30°-40°	325.2	16.0
40°-50°	346.6	17.1
50°-60°	331.4	16.4
60°-70°	280.7	13.9
70°-80°	188.7	9.3
80°-90°	53.2	2.6
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°	500.4	24.7
0°-40°	825.6	40.7
0°-60°	1503.5	74.2
0°-90°	2026.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	637	636	633	636	636	61
15°	615	615	614	619	618	173
25°	571	573	577	582	583	263
35°	506	510	518	529	531	317
45°	425	432	447	466	474	328
55°	329	341	371	400	414	293
65°	217	239	288	327	342	216
75°	102	140	195	228	235	110
85°	20	41	50	54	56	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	637.2	637.2	637.2	637.2	637.2
2.5°	638.2	638.2	635.2	637.2	637.2
5°	637.2	636.2	633.2	636.2	636.2
7.5°	634.2	633.2	631.2	634.2	633.2
10°	628.1	628.1	626.1	629.1	629.1
12.5°	623.1	622.1	621.1	625.1	624.1
15°	615.1	615.1	614.1	619.1	618.1
17.5°	605.0	606.0	607.0	611.0	612.0
20°	593.9	596.0	597.0	603.0	603.0
22.5°	583.9	584.9	586.9	592.9	592.9
25°	570.8	572.8	576.9	581.9	582.9
27.5°	557.8	558.8	563.8	570.8	571.8
30°	540.7	543.7	549.7	557.8	558.8
32.5°	525.6	528.6	535.6	543.7	545.7
35°	506.5	510.5	518.5	528.6	530.6
37.5°	489.4	492.4	502.4	513.5	516.5
40°	468.4	474.3	484.3	497.4	502.4
42.5°	447.2	453.3	465.3	482.3	488.4
45°	425.1	432.2	447.2	466.4	474.3
47.5°	403.0	411.0	428.1	450.3	459.3
50°	377.9	387.9	409.0	434.2	444.2
52.5°	353.7	365.8	388.9	417.1	430.2
55°	328.6	340.7	370.8	400.0	414.1
57.5°	300.4	316.5	349.7	382.9	398.0
60°	274.4	289.4	329.6	365.8	380.9
62.5°	246.2	266.4	309.5	347.7	362.8
65°	217.1	239.2	288.4	326.6	341.7
67.5°	190.9	215.1	267.4	305.5	320.6
70°	159.8	189.9	244.2	282.3	297.4
72.5°	130.6	163.8	220.1	257.3	271.4
75°	102.5	139.7	195.0	228.1	235.2
77.5°	76.4	115.5	168.8	182.9	177.9
80°	54.3	92.5	131.6	124.6	127.6
82.5°	35.2	70.4	81.4	92.5	95.4
85°	20.1	41.2	50.3	54.3	56.3
87.5°	9.0	15.1	20.1	20.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)