

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: P475418

Luminaire Tested: **14CZ2-44-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475418
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L830-CD1-U
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

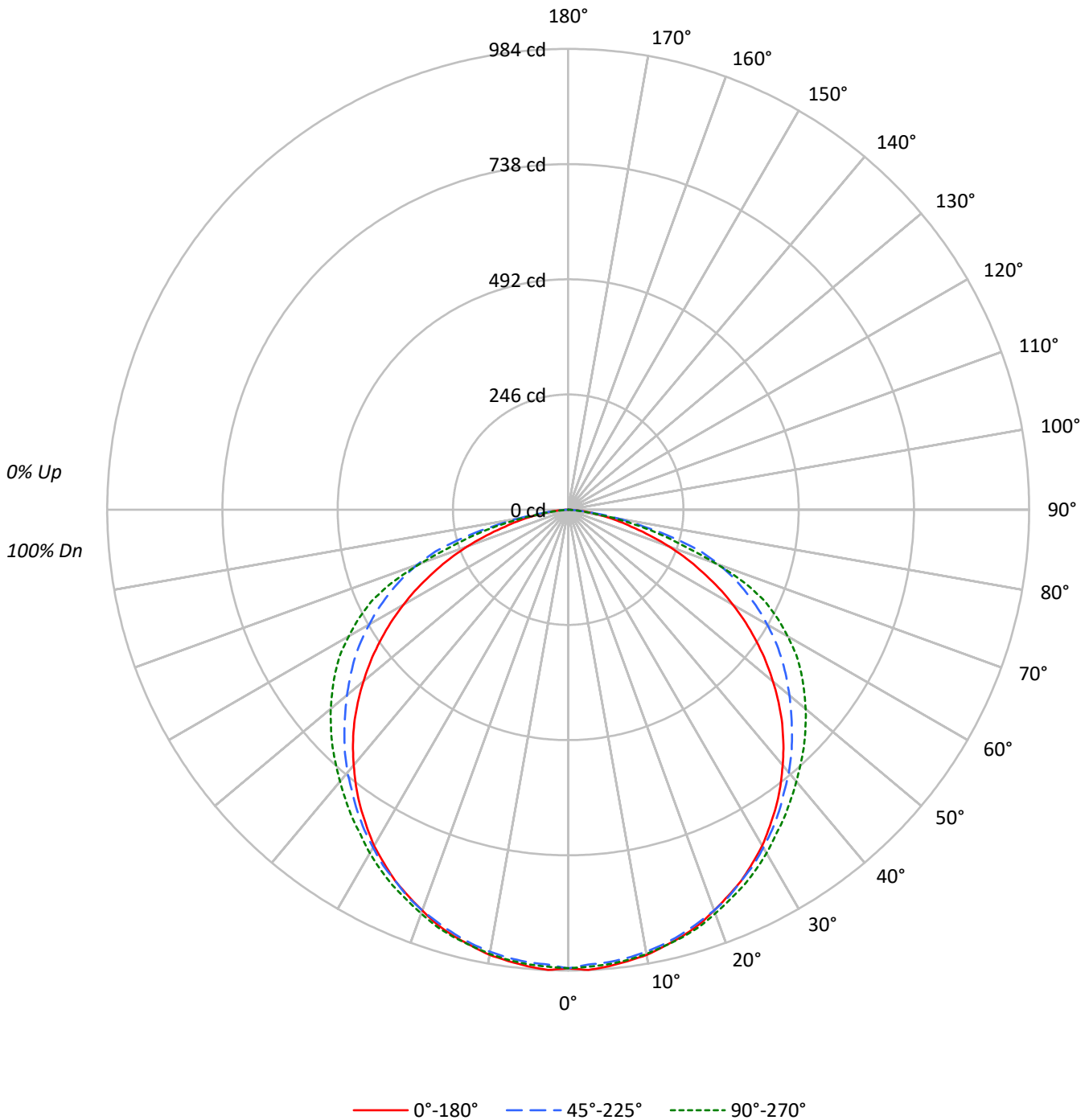
Lumens per Lamp: N/A
Luminaire Lumens: 2923.4 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.6
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2635	2635	2635
5°	2645	2620	2633
10°	2638	2619	2632
15°	2626	2613	2632
20°	2608	2608	2627
25°	2595	2595	2629
30°	2574	2589	2631
35°	2542	2579	2639
40°	2501	2573	2662
45°	2458	2571	2710
50°	2389	2580	2771
55°	2302	2613	2848
60°	2187	2641	2911
65°	2020	2674	2950
70°	1795	2694	2640
75°	1447	2420	2112
80°	1131	1698	1379
85°	775	494	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.2
10°-20°	265.9	9.1
20°-30°	404.9	13.8
30°-40°	493.1	16.9
40°-50°	523.2	17.9
50°-60°	493.8	16.9
60°-70°	398.7	13.6
70°-80°	216.3	7.4
80°-90°	35.0	1.2
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°	763.4	26.1
0°-40°	1256.6	43.0
0°-60°	2273.5	77.8
0°-90°	2923.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2923.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	979	977	970	977	975	93
15°	943	940	938	945	945	266
25°	874	872	874	883	886	402
35°	774	778	785	801	803	484
45°	646	655	676	701	712	497
55°	491	511	557	593	607	438
65°	317	356	420	454	463	314
75°	139	203	233	210	203	152
85°	25	27	16	14	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.1	979.1	979.1	979.1	979.1
2.5°	983.7	979.1	972.3	979.1	976.8
5°	979.1	976.8	970.0	976.8	974.6
7.5°	972.3	972.3	965.4	970.0	970.0
10°	965.4	963.2	958.6	965.4	963.2
12.5°	954.0	951.7	949.5	956.3	954.0
15°	942.6	940.3	938.0	944.9	944.9
17.5°	928.9	926.6	924.4	933.5	933.5
20°	910.7	910.7	910.7	919.8	917.5
22.5°	892.4	892.4	894.7	903.8	901.5
25°	874.1	871.9	874.1	883.3	885.6
27.5°	851.3	853.6	855.9	865.0	867.3
30°	828.5	830.8	833.1	844.5	846.8
32.5°	801.1	805.7	810.2	823.9	823.9
35°	773.7	778.3	785.1	801.1	803.4
37.5°	744.0	748.6	757.7	776.0	780.6
40°	712.1	718.9	732.6	750.9	757.7
42.5°	680.1	689.3	705.2	725.8	734.9
45°	645.9	655.0	675.6	700.7	712.1
47.5°	609.4	620.8	645.9	677.9	687.0
50°	570.6	586.6	616.2	650.5	661.9
52.5°	531.8	550.0	586.6	623.1	634.5
55°	490.7	511.2	556.9	593.4	607.1
57.5°	449.6	472.4	524.9	563.7	577.4
60°	406.3	433.6	490.7	529.5	540.9
62.5°	362.9	394.8	456.5	495.3	504.4
65°	317.2	356.0	420.0	454.2	463.3
67.5°	273.9	319.5	383.4	408.5	408.5
70°	228.2	278.4	342.4	349.2	335.5
72.5°	182.6	239.6	296.7	271.6	260.2
75°	139.2	203.1	232.8	210.0	203.1
77.5°	105.0	164.3	164.3	150.6	146.1
80°	73.0	125.5	109.6	95.9	89.0
82.5°	47.9	70.8	57.1	45.6	38.8
85°	25.1	27.4	16.0	13.7	11.4
87.5°	9.1	4.6	2.3	4.6	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)