

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: P475417

Luminaire Tested: **14CZ2-39-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475417
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-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

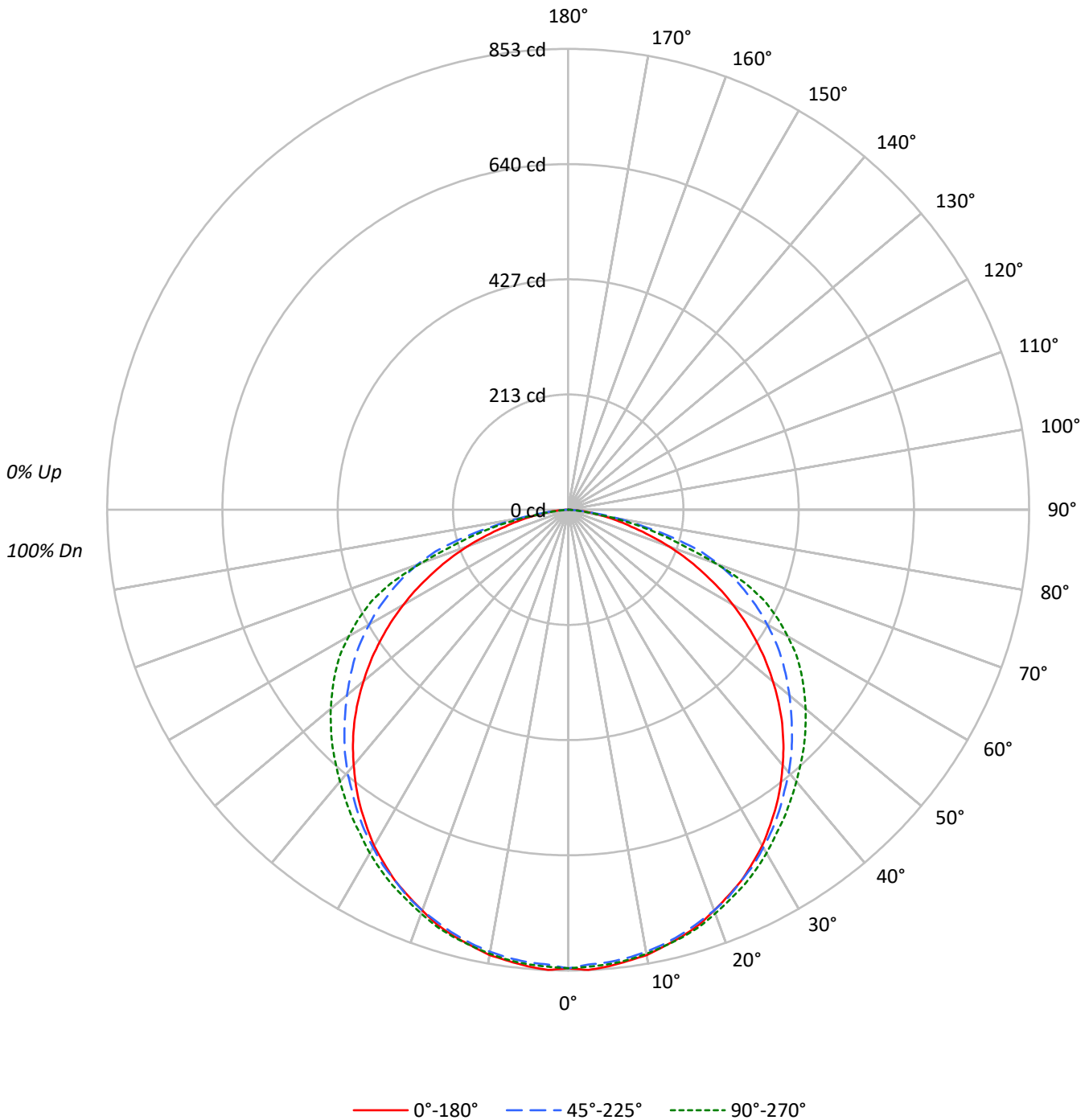
Lumens per Lamp: N/A
Luminaire Lumens: 2534.3 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
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°	2284	2284	2284
5°	2293	2271	2282
10°	2287	2271	2281
15°	2276	2265	2282
20°	2261	2261	2278
25°	2250	2250	2279
30°	2232	2244	2281
35°	2203	2236	2288
40°	2168	2231	2308
45°	2131	2229	2349
50°	2071	2236	2402
55°	1996	2265	2469
60°	1896	2289	2524
65°	1751	2318	2557
70°	1557	2335	2288
75°	1255	2098	1831
80°	981	1472	1196
85°	673	426	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.2
10°-20°	230.5	9.1
20°-30°	351.0	13.8
30°-40°	427.5	16.9
40°-50°	453.5	17.9
50°-60°	428.0	16.9
60°-70°	345.6	13.6
70°-80°	187.5	7.4
80°-90°	30.3	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°	661.8	26.1
0°-40°	1089.3	43.0
0°-60°	1970.9	77.8
0°-90°	2534.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	849	847	841	847	845	81
15°	817	815	813	819	819	231
25°	758	756	758	766	768	349
35°	671	675	681	694	696	419
45°	560	568	586	607	617	431
55°	425	443	483	514	526	380
65°	275	309	364	394	402	273
75°	121	176	202	182	176	132
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.8	848.8	848.8	848.8	848.8
2.5°	852.7	848.8	842.8	848.8	846.8
5°	848.8	846.8	840.9	846.8	844.8
7.5°	842.8	842.8	836.9	840.9	840.9
10°	836.9	834.9	831.0	836.9	834.9
12.5°	827.0	825.0	823.1	829.0	827.0
15°	817.1	815.1	813.2	819.1	819.1
17.5°	805.3	803.3	801.3	809.2	809.2
20°	789.4	789.4	789.4	797.3	795.4
22.5°	773.6	773.6	775.6	783.5	781.5
25°	757.8	755.8	757.8	765.7	767.7
27.5°	738.0	740.0	741.9	749.9	751.8
30°	718.2	720.2	722.2	732.1	734.0
32.5°	694.5	698.4	702.4	714.2	714.2
35°	670.7	674.7	680.6	694.5	696.4
37.5°	645.0	649.0	656.9	672.7	676.7
40°	617.3	623.2	635.1	650.9	656.9
42.5°	589.6	597.5	611.4	629.2	637.1
45°	559.9	567.8	585.6	607.4	617.3
47.5°	528.3	538.2	559.9	587.6	595.5
50°	494.6	508.5	534.2	563.9	573.8
52.5°	461.0	476.8	508.5	540.1	550.0
55°	425.4	443.2	482.8	514.4	526.3
57.5°	389.8	409.6	455.1	488.7	500.6
60°	352.2	375.9	425.4	459.0	468.9
62.5°	314.6	342.3	395.7	429.3	437.3
65°	275.0	308.6	364.0	393.7	401.6
67.5°	237.4	277.0	332.4	354.2	354.2
70°	197.9	241.4	296.8	302.7	290.8
72.5°	158.3	207.7	257.2	235.4	225.6
75°	120.7	176.1	201.8	182.0	176.1
77.5°	91.0	142.5	142.5	130.6	126.6
80°	63.3	108.8	95.0	83.1	77.2
82.5°	41.5	61.3	49.5	39.6	33.6
85°	21.8	23.7	13.8	11.9	9.9
87.5°	7.9	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)