

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: P475414

Luminaire Tested: **14CZ2-25-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475414
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-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

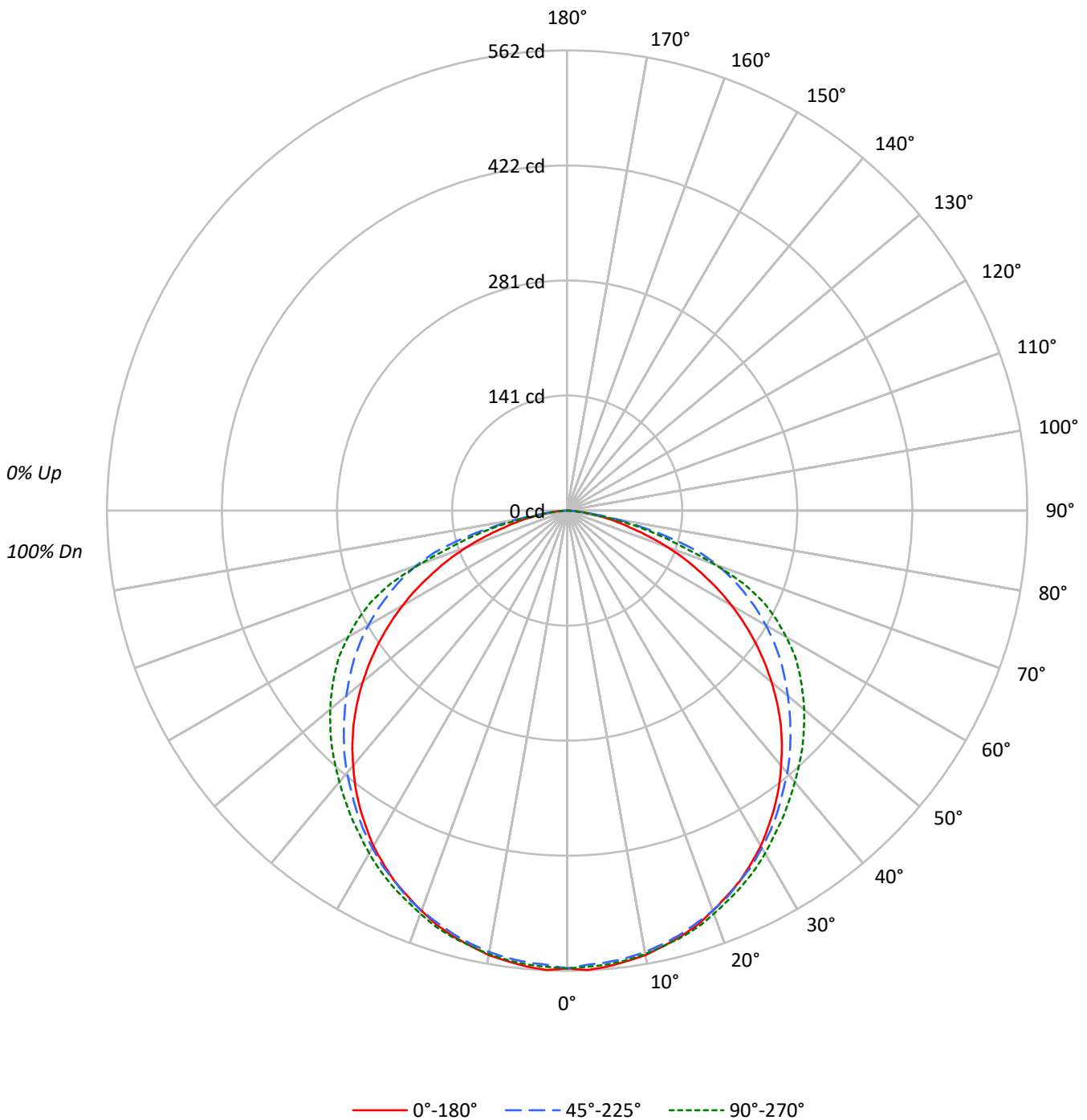
Lumens per Lamp: N/A
Luminaire Lumens: 1669.2 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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°	1505	1505	1505
5°	1510	1496	1503
10°	1506	1495	1503
15°	1499	1492	1503
20°	1489	1489	1500
25°	1482	1482	1501
30°	1470	1478	1502
35°	1451	1473	1507
40°	1428	1469	1520
45°	1404	1468	1547
50°	1364	1473	1582
55°	1315	1492	1626
60°	1249	1508	1662
65°	1153	1527	1684
70°	1025	1538	1507
75°	827	1382	1206
80°	646	970	787
85°	442	281	201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.2
10°-20°	151.8	9.1
20°-30°	231.2	13.8
30°-40°	281.6	16.9
40°-50°	298.7	17.9
50°-60°	281.9	16.9
60°-70°	227.6	13.6
70°-80°	123.5	7.4
80°-90°	20.0	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°	435.9	26.1
0°-40°	717.5	43.0
0°-60°	1298.1	77.8
0°-90°	1669.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	559	558	554	558	556	53
15°	538	537	536	540	540	152
25°	499	498	499	504	506	230
35°	442	444	448	457	459	276
45°	369	374	386	400	407	284
55°	280	292	318	339	347	250
65°	181	203	240	259	264	179
75°	80	116	133	120	116	87
85°	14	16	9	8	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.1	559.1	559.1	559.1	559.1
2.5°	561.7	559.1	555.2	559.1	557.8
5°	559.1	557.8	553.9	557.8	556.5
7.5°	555.2	555.2	551.3	553.9	553.9
10°	551.3	549.9	547.3	551.3	549.9
12.5°	544.7	543.4	542.1	546.0	544.7
15°	538.2	536.9	535.6	539.5	539.5
17.5°	530.4	529.1	527.8	533.0	533.0
20°	520.0	520.0	520.0	525.2	523.9
22.5°	509.5	509.5	510.9	516.1	514.8
25°	499.1	497.8	499.1	504.3	505.6
27.5°	486.1	487.4	488.7	493.9	495.2
30°	473.1	474.4	475.7	482.2	483.5
32.5°	457.4	460.0	462.6	470.5	470.5
35°	441.8	444.4	448.3	457.4	458.7
37.5°	424.8	427.4	432.7	443.1	445.7
40°	406.6	410.5	418.3	428.8	432.7
42.5°	388.4	393.6	402.7	414.4	419.6
45°	368.8	374.0	385.7	400.1	406.6
47.5°	348.0	354.5	368.8	387.0	392.3
50°	325.8	334.9	351.9	371.4	377.9
52.5°	303.6	314.1	334.9	355.8	362.3
55°	280.2	291.9	318.0	338.8	346.6
57.5°	256.7	269.8	299.7	321.9	329.7
60°	232.0	247.6	280.2	302.3	308.9
62.5°	207.2	225.5	260.6	282.8	288.0
65°	181.1	203.3	239.8	259.3	264.5
67.5°	156.4	182.4	218.9	233.3	233.3
70°	130.3	159.0	195.5	199.4	191.6
72.5°	104.3	136.8	169.4	155.1	148.6
75°	79.5	116.0	132.9	119.9	116.0
77.5°	59.9	93.8	93.8	86.0	83.4
80°	41.7	71.7	62.6	54.7	50.8
82.5°	27.4	40.4	32.6	26.1	22.2
85°	14.3	15.6	9.1	7.8	6.5
87.5°	5.2	2.6	1.3	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)