

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: P475432

Luminaire Tested: **14CZ2-25-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475432
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-L840-CD1-U
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

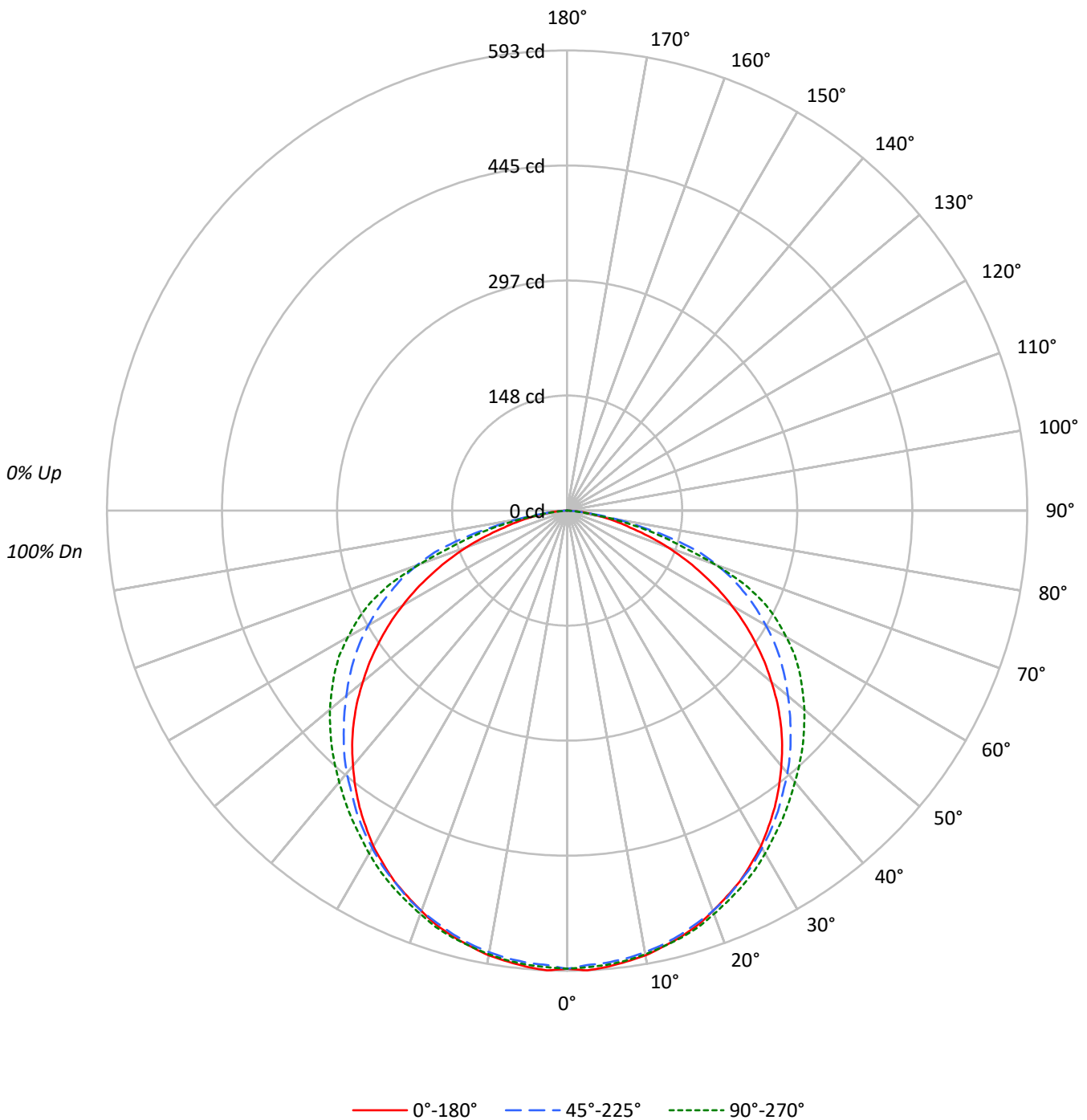
Lumens per Lamp: N/A
Luminaire Lumens: 1762.7 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1589	1589	1589
5°	1595	1580	1587
10°	1591	1579	1587
15°	1583	1576	1587
20°	1572	1572	1584
25°	1565	1565	1585
30°	1552	1561	1586
35°	1532	1555	1591
40°	1508	1552	1605
45°	1482	1550	1634
50°	1440	1556	1671
55°	1388	1575	1717
60°	1318	1593	1755
65°	1218	1612	1779
70°	1083	1624	1592
75°	872	1460	1274
80°	682	1024	832
85°	466	296	213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	3.2
10°-20°	160.3	9.1
20°-30°	244.1	13.8
30°-40°	297.3	16.9
40°-50°	315.4	17.9
50°-60°	297.7	16.9
60°-70°	240.4	13.6
70°-80°	130.4	7.4
80°-90°	21.1	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°	460.3	26.1
0°-40°	757.6	43.0
0°-60°	1370.8	77.8
0°-90°	1762.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1762.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	589	585	589	588	56
15°	568	567	566	570	570	160
25°	527	526	527	533	534	243
35°	466	469	473	483	484	292
45°	389	395	407	422	429	300
55°	296	308	336	358	366	264
65°	191	215	253	274	279	190
75°	84	122	140	127	122	92
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.4	590.4	590.4	590.4	590.4
2.5°	593.1	590.4	586.2	590.4	589.0
5°	590.4	589.0	584.9	589.0	587.6
7.5°	586.2	586.2	582.1	584.9	584.9
10°	582.1	580.7	578.0	582.1	580.7
12.5°	575.2	573.8	572.5	576.6	575.2
15°	568.3	567.0	565.6	569.7	569.7
17.5°	560.1	558.7	557.3	562.8	562.8
20°	549.1	549.1	549.1	554.6	553.2
22.5°	538.1	538.1	539.4	544.9	543.6
25°	527.1	525.7	527.1	532.6	533.9
27.5°	513.3	514.7	516.0	521.5	522.9
30°	499.5	500.9	502.3	509.2	510.5
32.5°	483.0	485.8	488.5	496.8	496.8
35°	466.5	469.3	473.4	483.0	484.4
37.5°	448.6	451.4	456.9	467.9	470.6
40°	429.3	433.5	441.7	452.7	456.9
42.5°	410.1	415.6	425.2	437.6	443.1
45°	389.4	394.9	407.3	422.5	429.3
47.5°	367.4	374.3	389.4	408.7	414.2
50°	344.0	353.7	371.6	392.2	399.1
52.5°	320.6	331.6	353.7	375.7	382.6
55°	295.9	308.3	335.8	357.8	366.0
57.5°	271.1	284.9	316.5	339.9	348.2
60°	244.9	261.5	295.9	319.3	326.1
62.5°	218.8	238.1	275.2	298.6	304.1
65°	191.3	214.7	253.2	273.8	279.4
67.5°	165.1	192.7	231.2	246.3	246.3
70°	137.6	167.9	206.4	210.5	202.3
72.5°	110.1	144.5	178.9	163.8	156.9
75°	83.9	122.5	140.4	126.6	122.5
77.5°	63.3	99.1	99.1	90.8	88.1
80°	44.0	75.7	66.1	57.8	53.7
82.5°	28.9	42.7	34.4	27.5	23.4
85°	15.1	16.5	9.6	8.3	6.9
87.5°	5.5	2.8	1.4	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)