

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: P475423

Luminaire Tested: **14CZ2-25-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475423
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-L835-CD1-U
Description: 1'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: 1729.8 lumens
Efficiency: N/A
Efficacy: 91.0 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

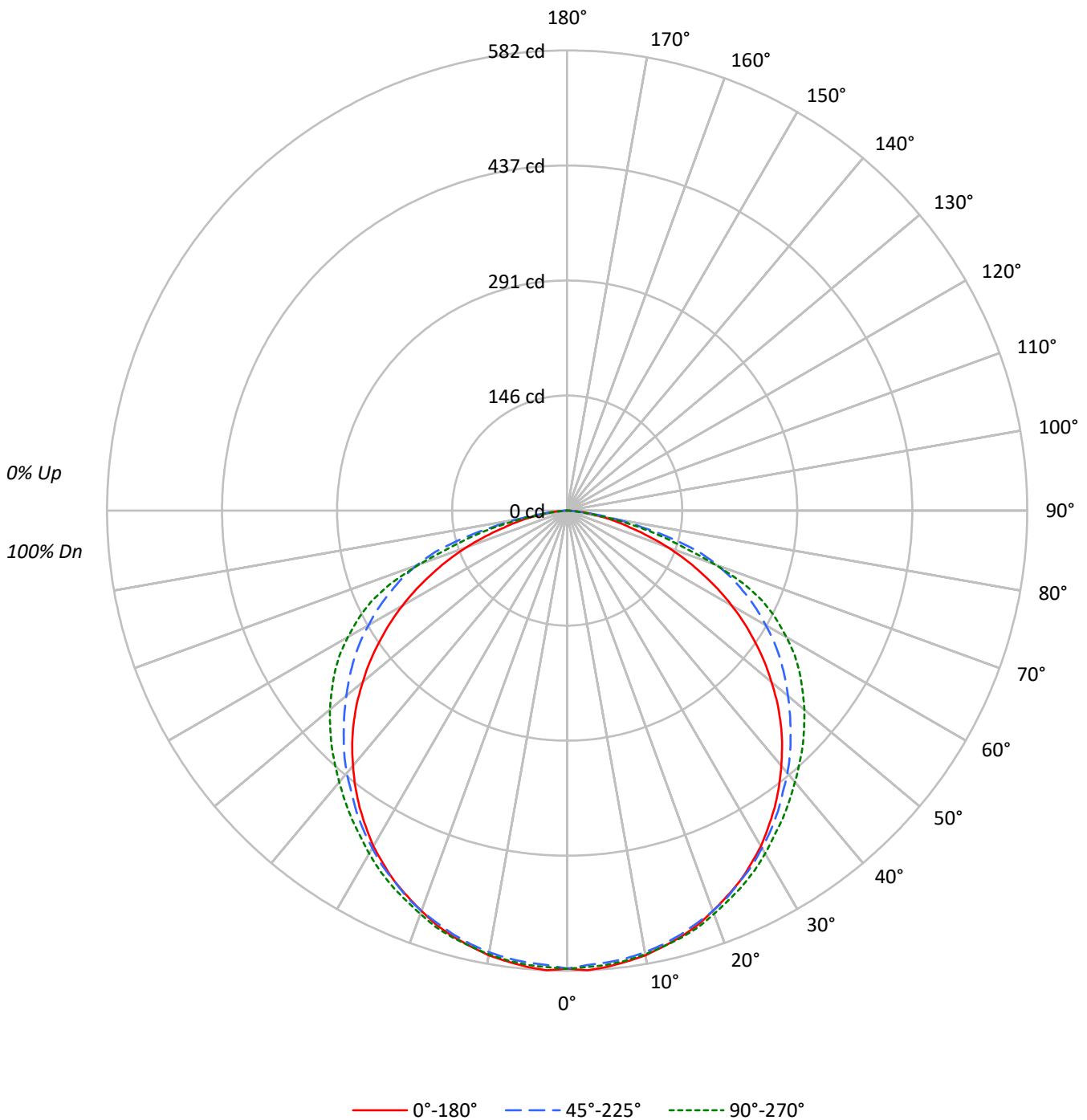
Input Watts (W): 19
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1559	1559	1559
5°	1565	1550	1558
10°	1561	1550	1557
15°	1554	1546	1558
20°	1543	1543	1555
25°	1536	1536	1556
30°	1523	1532	1557
35°	1504	1526	1562
40°	1480	1523	1575
45°	1455	1521	1603
50°	1413	1526	1639
55°	1362	1546	1685
60°	1294	1562	1723
65°	1195	1582	1745
70°	1062	1594	1562
75°	857	1432	1250
80°	669	1004	817
85°	460	293	210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	3.2
10°-20°	157.3	9.1
20°-30°	239.6	13.8
30°-40°	291.8	16.9
40°-50°	309.6	17.9
50°-60°	292.2	16.9
60°-70°	235.9	13.6
70°-80°	128.0	7.4
80°-90°	20.7	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°	451.7	26.1
0°-40°	743.5	43.0
0°-60°	1345.2	77.8
0°-90°	1729.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	579	578	574	578	577	55
15°	558	556	555	559	559	157
25°	517	516	517	523	524	238
35°	458	460	465	474	475	286
45°	382	388	400	415	421	294
55°	290	302	330	351	359	259
65°	188	211	248	269	274	186
75°	82	120	138	124	120	90
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°	579.3	579.3	579.3	579.3	579.3
2.5°	582.0	579.3	575.3	579.3	578.0
5°	579.3	578.0	573.9	578.0	576.6
7.5°	575.3	575.3	571.2	573.9	573.9
10°	571.2	569.9	567.2	571.2	569.9
12.5°	564.5	563.1	561.8	565.8	564.5
15°	557.7	556.4	555.0	559.1	559.1
17.5°	549.6	548.3	546.9	552.3	552.3
20°	538.8	538.8	538.8	544.2	542.9
22.5°	528.0	528.0	529.4	534.8	533.4
25°	517.2	515.9	517.2	522.6	524.0
27.5°	503.7	505.1	506.4	511.8	513.2
30°	490.2	491.6	492.9	499.7	501.0
32.5°	474.0	476.7	479.4	487.5	487.5
35°	457.8	460.5	464.6	474.0	475.4
37.5°	440.3	443.0	448.4	459.2	461.9
40°	421.3	425.4	433.5	444.3	448.4
42.5°	402.4	407.8	417.3	429.4	434.8
45°	382.2	387.6	399.7	414.6	421.3
47.5°	360.6	367.3	382.2	401.1	406.5
50°	337.6	347.1	364.6	384.9	391.6
52.5°	314.7	325.5	347.1	368.7	375.4
55°	290.3	302.5	329.5	351.1	359.2
57.5°	266.0	279.5	310.6	333.6	341.7
60°	240.4	256.6	290.3	313.3	320.1
62.5°	214.7	233.6	270.1	293.0	298.5
65°	187.7	210.7	248.5	268.7	274.1
67.5°	162.1	189.1	226.9	241.7	241.7
70°	135.0	164.8	202.6	206.6	198.5
72.5°	108.0	141.8	175.6	160.7	154.0
75°	82.4	120.2	137.7	124.2	120.2
77.5°	62.1	97.2	97.2	89.1	86.4
80°	43.2	74.3	64.8	56.7	52.7
82.5°	28.4	41.9	33.8	27.0	23.0
85°	14.9	16.2	9.5	8.1	6.8
87.5°	5.4	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)