

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: P475424

Luminaire Tested: **14CZ2-29-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475424
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-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

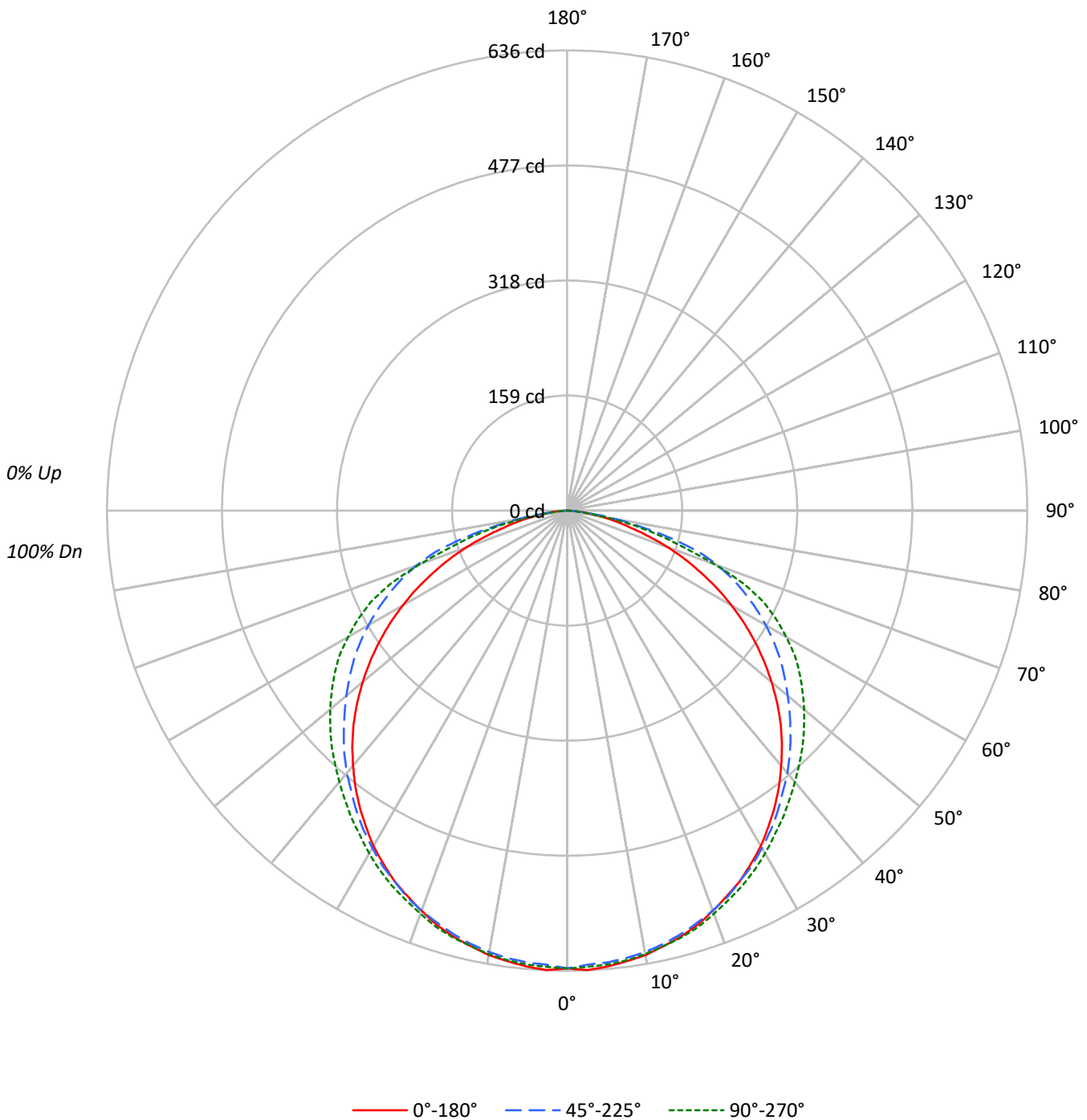
Lumens per Lamp: N/A
Luminaire Lumens: 1889.2 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.4
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°	1703	1703	1703
5°	1709	1693	1701
10°	1705	1693	1701
15°	1697	1689	1701
20°	1685	1685	1698
25°	1677	1677	1699
30°	1664	1673	1700
35°	1643	1667	1706
40°	1617	1663	1720
45°	1588	1662	1751
50°	1544	1667	1791
55°	1488	1688	1841
60°	1413	1707	1882
65°	1305	1728	1906
70°	1161	1740	1706
75°	936	1564	1365
80°	731	1097	891
85°	500	318	228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.2
10°-20°	171.8	9.1
20°-30°	261.6	13.8
30°-40°	318.7	16.9
40°-50°	338.1	17.9
50°-60°	319.1	16.9
60°-70°	257.6	13.6
70°-80°	139.7	7.4
80°-90°	22.6	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°	493.4	26.1
0°-40°	812.0	43.0
0°-60°	1469.2	77.8
0°-90°	1889.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	633	633	633	633	633	
5°	633	631	627	631	630	60
15°	609	608	606	611	611	172
25°	565	563	565	571	572	260
35°	500	503	507	518	519	313
45°	417	423	437	453	460	321
55°	317	330	360	384	392	283
65°	205	230	271	294	299	203
75°	90	131	150	136	131	98
85°	16	18	10	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.7	632.7	632.7	632.7	632.7
2.5°	635.7	632.7	628.3	632.7	631.3
5°	632.7	631.3	626.9	631.3	629.8
7.5°	628.3	628.3	623.9	626.9	626.9
10°	623.9	622.4	619.5	623.9	622.4
12.5°	616.5	615.1	613.6	618.0	616.5
15°	609.2	607.7	606.2	610.6	610.6
17.5°	600.3	598.8	597.4	603.3	603.3
20°	588.5	588.5	588.5	594.4	592.9
22.5°	576.7	576.7	578.2	584.1	582.6
25°	564.9	563.4	564.9	570.8	572.3
27.5°	550.2	551.6	553.1	559.0	560.5
30°	535.4	536.9	538.4	545.7	547.2
32.5°	517.7	520.7	523.6	532.5	532.5
35°	500.0	503.0	507.4	517.7	519.2
37.5°	480.8	483.8	489.7	501.5	504.4
40°	460.2	464.6	473.5	485.3	489.7
42.5°	439.5	445.4	455.8	469.0	474.9
45°	417.4	423.3	436.6	452.8	460.2
47.5°	393.8	401.2	417.4	438.1	444.0
50°	368.7	379.1	398.2	420.4	427.7
52.5°	343.7	355.5	379.1	402.7	410.0
55°	317.1	330.4	359.9	383.5	392.3
57.5°	290.6	305.3	339.2	364.3	373.2
60°	262.5	280.2	317.1	342.2	349.6
62.5°	234.5	255.2	295.0	320.1	326.0
65°	205.0	230.1	271.4	293.5	299.4
67.5°	177.0	206.5	247.8	264.0	264.0
70°	147.5	179.9	221.2	225.7	216.8
72.5°	118.0	154.9	191.7	175.5	168.1
75°	90.0	131.3	150.4	135.7	131.3
77.5°	67.8	106.2	106.2	97.3	94.4
80°	47.2	81.1	70.8	61.9	57.5
82.5°	31.0	45.7	36.9	29.5	25.1
85°	16.2	17.7	10.3	8.8	7.4
87.5°	5.9	2.9	1.5	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)