

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: P475426

Luminaire Tested: **14CZ2-39-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475426
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-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: 2626.2 lumens
Efficiency: N/A
Efficacy: 88.1 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

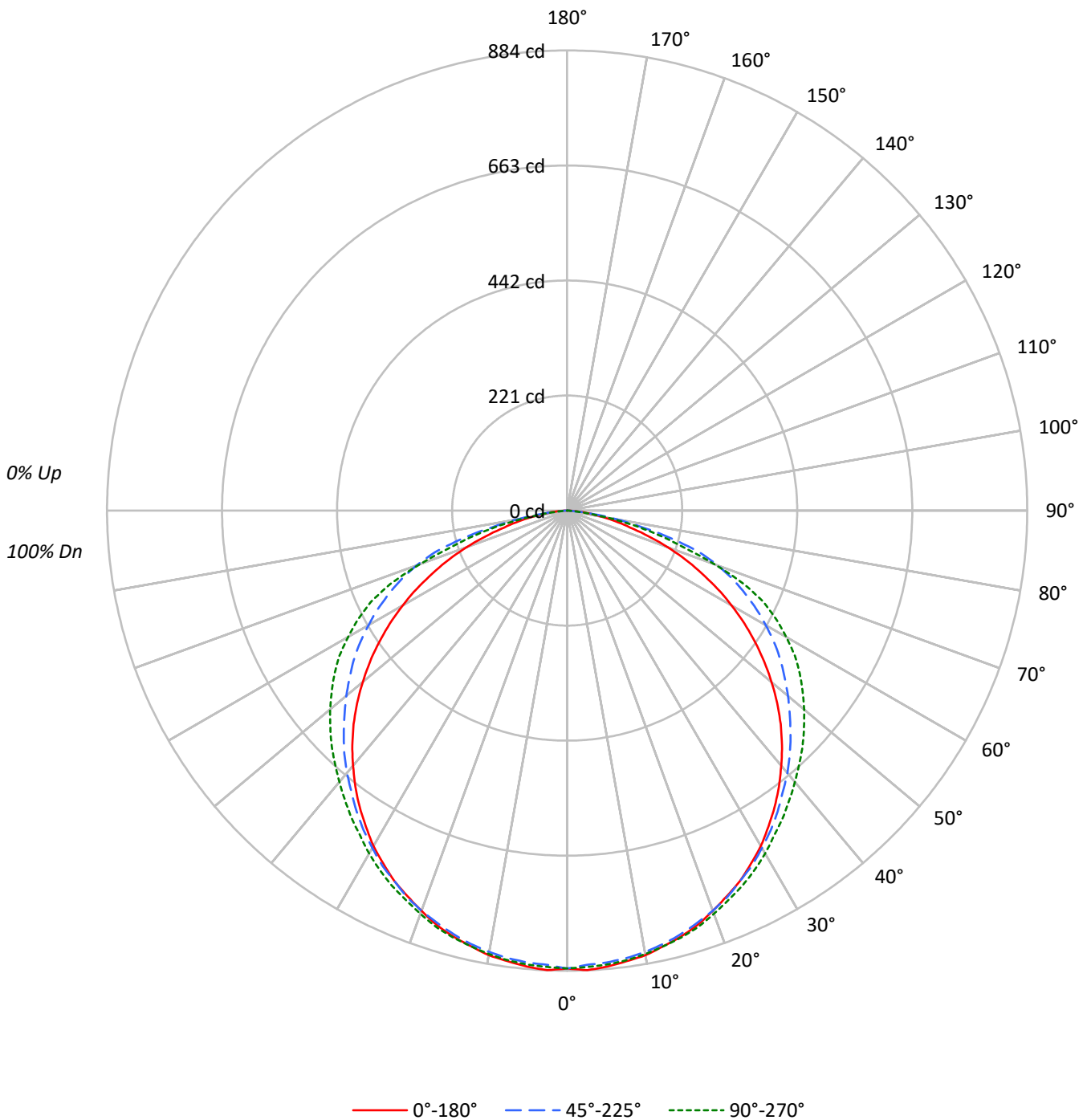
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2367	2367	2367
5°	2376	2354	2365
10°	2370	2353	2364
15°	2359	2348	2365
20°	2343	2343	2360
25°	2332	2332	2362
30°	2312	2325	2364
35°	2283	2317	2371
40°	2247	2312	2391
45°	2208	2310	2434
50°	2146	2318	2489
55°	2068	2347	2559
60°	1964	2372	2615
65°	1815	2402	2650
70°	1613	2419	2371
75°	1301	2174	1897
80°	1017	1525	1240
85°	698	445	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.2
10°-20°	238.9	9.1
20°-30°	363.7	13.8
30°-40°	443.0	16.9
40°-50°	470.0	17.9
50°-60°	443.6	16.9
60°-70°	358.1	13.6
70°-80°	194.3	7.4
80°-90°	31.5	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°	685.8	26.1
0°-40°	1128.8	43.0
0°-60°	2042.3	77.8
0°-90°	2626.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	880	878	871	878	876	84
15°	847	845	843	849	849	239
25°	785	783	785	794	796	362
35°	695	699	705	720	722	435
45°	580	588	607	629	640	447
55°	441	459	500	533	545	394
65°	285	320	377	408	416	282
75°	125	182	209	189	182	137
85°	23	25	14	12	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.6	879.6	879.6	879.6	879.6
2.5°	883.7	879.6	873.4	879.6	877.5
5°	879.6	877.5	871.4	877.5	875.5
7.5°	873.4	873.4	867.3	871.4	871.4
10°	867.3	865.2	861.1	867.3	865.2
12.5°	857.0	855.0	852.9	859.1	857.0
15°	846.8	844.7	842.7	848.8	848.8
17.5°	834.5	832.4	830.4	838.6	838.6
20°	818.1	818.1	818.1	826.3	824.2
22.5°	801.7	801.7	803.7	811.9	809.9
25°	785.3	783.2	785.3	793.5	795.5
27.5°	764.8	766.8	768.9	777.1	779.1
30°	744.2	746.3	748.3	758.6	760.7
32.5°	719.6	723.7	727.8	740.1	740.1
35°	695.0	699.1	705.3	719.6	721.7
37.5°	668.4	672.5	680.7	697.1	701.2
40°	639.7	645.8	658.1	674.5	680.7
42.5°	611.0	619.2	633.5	652.0	660.2
45°	580.2	588.4	606.9	629.4	639.7
47.5°	547.4	557.7	580.2	608.9	617.1
50°	512.6	526.9	553.6	584.3	594.6
52.5°	477.7	494.1	526.9	559.7	570.0
55°	440.8	459.3	500.3	533.1	545.4
57.5°	403.9	424.4	471.6	506.4	518.7
60°	364.9	389.6	440.8	475.7	485.9
62.5°	326.0	354.7	410.1	444.9	453.1
65°	285.0	319.8	377.3	408.0	416.2
67.5°	246.0	287.0	344.4	367.0	367.0
70°	205.0	250.1	307.5	313.7	301.4
72.5°	164.0	215.3	266.5	244.0	233.7
75°	125.1	182.5	209.1	188.6	182.5
77.5°	94.3	147.6	147.6	135.3	131.2
80°	65.6	112.8	98.4	86.1	80.0
82.5°	43.1	63.6	51.3	41.0	34.9
85°	22.6	24.6	14.4	12.3	10.3
87.5°	8.2	4.1	2.1	4.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)