

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: P475416

Luminaire Tested: **14CZ2-35-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475416  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-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**

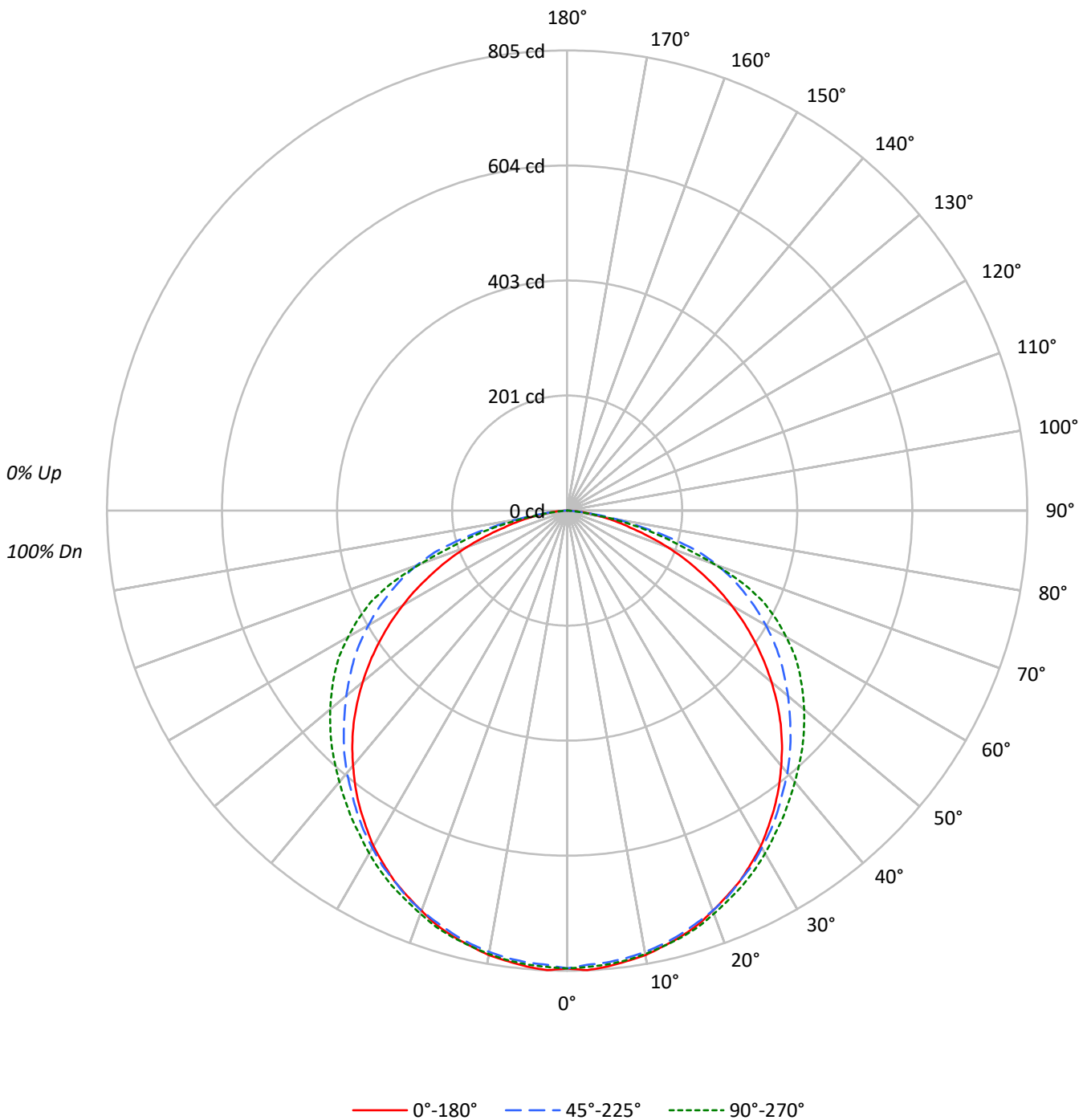
Lumens per Lamp: N/A  
Luminaire Lumens: 2391.3 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.5  
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°	2155	2155	2155
5°	2163	2143	2153
10°	2158	2143	2153
15°	2148	2138	2153
20°	2133	2133	2149
25°	2123	2123	2151
30°	2106	2117	2152
35°	2079	2110	2159
40°	2046	2105	2177
45°	2011	2103	2217
50°	1954	2110	2267
55°	1883	2137	2330
60°	1788	2160	2382
65°	1652	2187	2413
70°	1469	2203	2159
75°	1184	1980	1728
80°	925	1389	1128
85°	633	404	287



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	3.2
10°-20°	217.5	9.1
20°-30°	331.2	13.8
30°-40°	403.4	16.9
40°-50°	428.0	17.9
50°-60°	403.9	16.9
60°-70°	326.1	13.6
70°-80°	176.9	7.4
80°-90°	28.6	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°	624.5	26.1
0°-40°	1027.9	43.0
0°-60°	1859.7	77.8
0°-90°	2391.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2391.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	801	799	794	799	797	76
15°	771	769	767	773	773	218
25°	715	713	715	722	724	329
35°	633	637	642	655	657	396
45°	528	536	553	573	582	407
55°	401	418	456	485	497	359
65°	260	291	344	372	379	257
75°	114	166	190	172	166	124
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	800.9	800.9	800.9	800.9	800.9
2.5°	804.7	800.9	795.3	800.9	799.1
5°	800.9	799.1	793.5	799.1	797.2
7.5°	795.3	795.3	789.7	793.5	793.5
10°	789.7	787.9	784.1	789.7	787.9
12.5°	780.4	778.5	776.7	782.3	780.4
15°	771.1	769.2	767.3	772.9	772.9
17.5°	759.9	758.0	756.1	763.6	763.6
20°	744.9	744.9	744.9	752.4	750.5
22.5°	730.0	730.0	731.9	739.3	737.5
25°	715.0	713.2	715.0	722.5	724.4
27.5°	696.4	698.2	700.1	707.6	709.4
30°	677.7	679.6	681.4	690.8	692.6
32.5°	655.3	659.0	662.8	674.0	674.0
35°	632.9	636.6	642.2	655.3	657.2
37.5°	608.6	612.4	619.8	634.8	638.5
40°	582.5	588.1	599.3	614.2	619.8
42.5°	556.4	563.8	576.9	593.7	601.2
45°	528.4	535.8	552.6	573.2	582.5
47.5°	498.5	507.8	528.4	554.5	562.0
50°	466.7	479.8	504.1	532.1	541.4
52.5°	435.0	449.9	479.8	509.7	519.0
55°	401.4	418.2	455.5	485.4	496.6
57.5°	367.8	386.5	429.4	461.1	472.3
60°	332.3	354.7	401.4	433.1	442.5
62.5°	296.8	323.0	373.4	405.1	412.6
65°	259.5	291.2	343.5	371.5	379.0
67.5°	224.0	261.4	313.7	334.2	334.2
70°	186.7	227.8	280.0	285.6	274.4
72.5°	149.4	196.0	242.7	222.2	212.8
75°	113.9	166.2	190.4	171.8	166.2
77.5°	85.9	134.4	134.4	123.2	119.5
80°	59.7	102.7	89.6	78.4	72.8
82.5°	39.2	57.9	46.7	37.3	31.7
85°	20.5	22.4	13.1	11.2	9.3
87.5°	7.5	3.7	1.9	3.7	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)