

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: P474212

Luminaire Tested: **24CZ2-35-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474212
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-RDP-UNV-L835-CD1-U
Description: 2'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

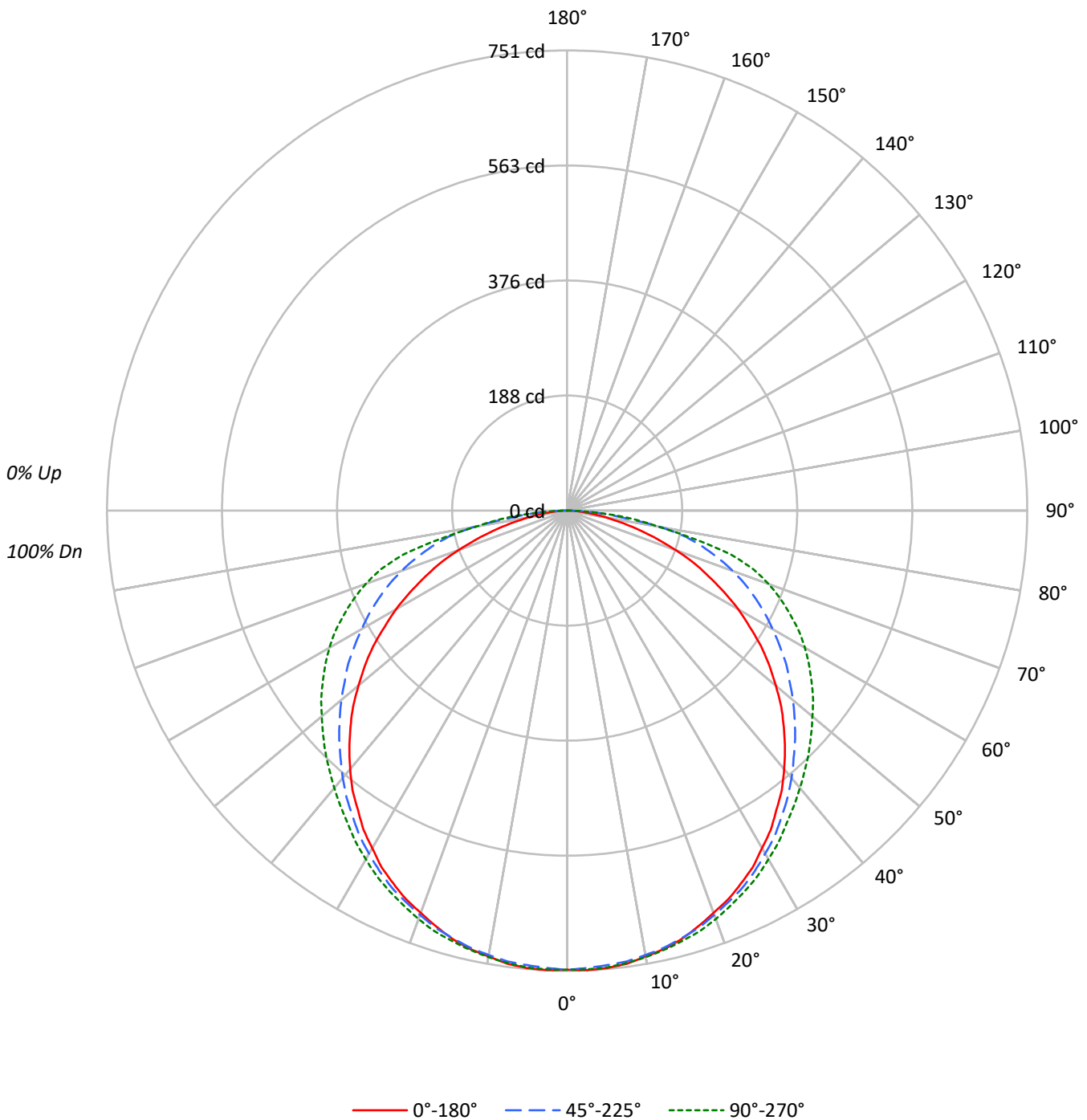
Lumens per Lamp: N/A
Luminaire Lumens: 2383.2 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1008	1008	1008
5°	1012	1006	1011
10°	1009	1006	1011
15°	1008	1006	1013
20°	1000	1005	1016
25°	997	1007	1018
30°	988	1005	1021
35°	978	1002	1025
40°	968	1001	1038
45°	952	1001	1062
50°	930	1007	1094
55°	907	1023	1142
60°	869	1043	1206
65°	813	1080	1280
70°	739	1130	1376
75°	626	1192	1438
80°	495	1199	1163
85°	366	912	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.0
10°-20°	204.6	8.6
20°-30°	312.9	13.1
30°-40°	382.5	16.0
40°-50°	407.7	17.1
50°-60°	389.8	16.4
60°-70°	330.2	13.9
70°-80°	221.9	9.3
80°-90°	62.6	2.6
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°	588.6	24.7
0°-40°	971.1	40.7
0°-60°	1768.5	74.2
0°-90°	2383.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	750	748	745	748	748	71
15°	724	724	722	728	727	204
25°	671	674	678	684	686	309
35°	596	600	610	622	624	373
45°	500	508	526	548	558	386
55°	386	401	436	470	487	344
65°	255	281	339	384	402	254
75°	120	164	229	268	277	129
85°	24	48	59	64	66	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.5	749.5	749.5	749.5	749.5
2.5°	750.7	750.7	747.1	749.5	749.5
5°	749.5	748.3	744.8	748.3	748.3
7.5°	745.9	744.8	742.4	745.9	744.8
10°	738.8	738.8	736.5	740.0	740.0
12.5°	732.9	731.8	730.6	735.3	734.1
15°	723.5	723.5	722.3	728.2	727.0
17.5°	711.6	712.8	714.0	718.7	719.9
20°	698.6	701.0	702.2	709.3	709.3
22.5°	686.8	688.0	690.4	697.5	697.5
25°	671.4	673.8	678.5	684.4	685.6
27.5°	656.1	657.2	663.2	671.4	672.6
30°	636.0	639.5	646.6	656.1	657.2
32.5°	618.2	621.8	630.0	639.5	641.9
35°	595.7	600.5	609.9	621.8	624.1
37.5°	575.6	579.2	591.0	604.0	607.6
40°	550.9	557.9	569.7	585.1	591.0
42.5°	526.1	533.2	547.4	567.4	574.4
45°	500.1	508.3	526.1	548.5	557.9
47.5°	474.0	483.5	503.6	529.6	540.3
50°	444.5	456.3	481.1	510.7	522.5
52.5°	416.1	430.3	457.5	490.6	506.0
55°	386.5	400.7	436.2	470.5	487.0
57.5°	353.4	372.3	411.4	450.4	468.1
60°	322.8	340.4	387.7	430.3	448.0
62.5°	289.6	313.3	364.0	409.0	426.7
65°	255.4	281.4	339.2	384.1	401.9
67.5°	224.6	253.0	314.5	359.3	377.1
70°	187.9	223.4	287.3	332.1	349.8
72.5°	153.6	192.7	258.9	302.7	319.2
75°	120.5	164.3	229.3	268.4	276.6
77.5°	89.9	135.9	198.6	215.1	209.2
80°	63.9	108.8	154.8	146.5	150.1
82.5°	41.4	82.8	95.8	108.8	112.2
85°	23.7	48.5	59.1	63.9	66.2
87.5°	10.6	17.7	23.7	23.7	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)