

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: P277119

Luminaire Tested: **24CZ2-35-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1999.1 lumens
Efficiency: N/A
Efficacy: 76.0 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

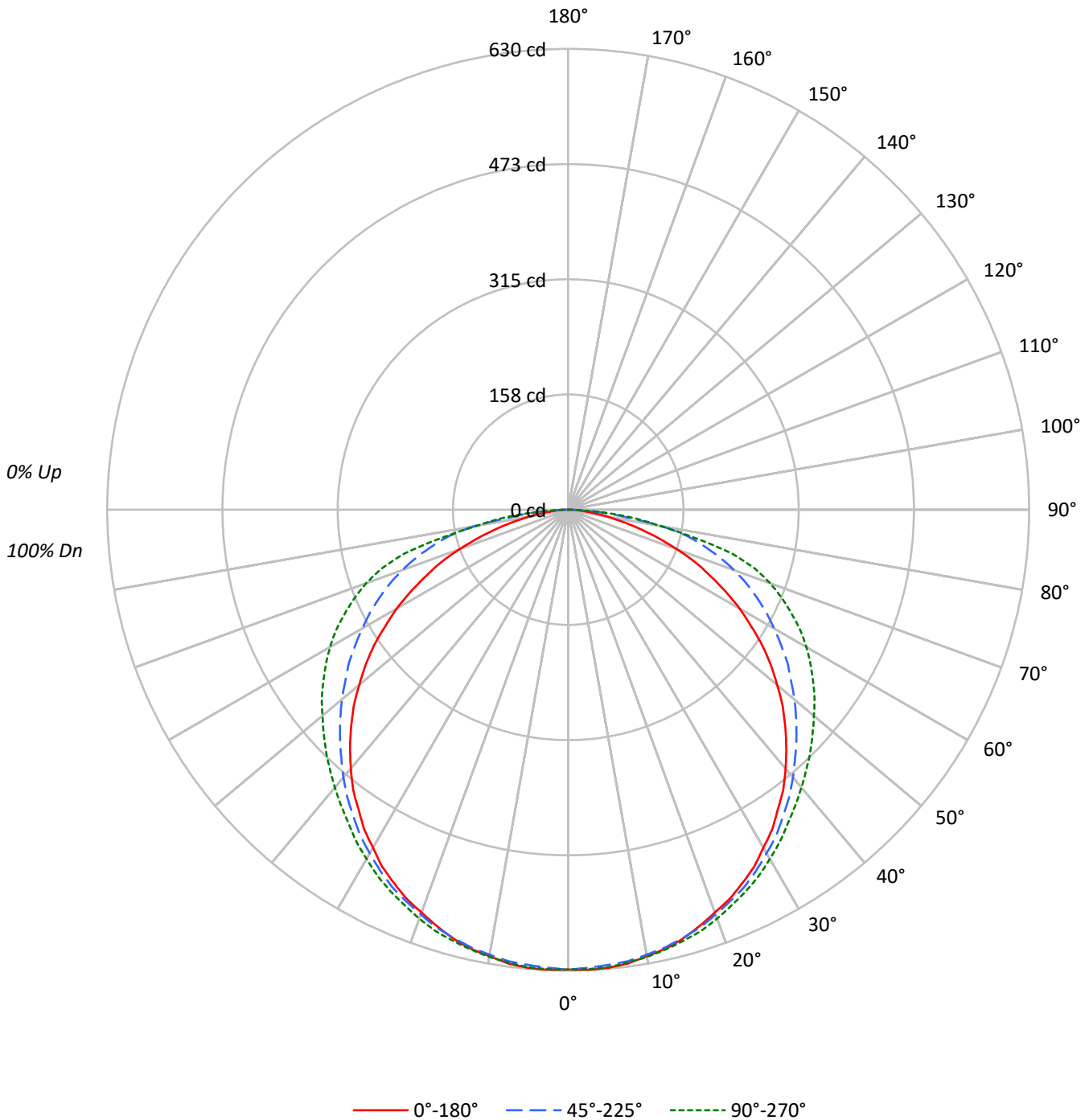
Input Watts (W): 26.319
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	846	846	846
5°	849	844	848
10°	847	844	848
15°	845	844	849
20°	839	843	852
25°	836	845	854
30°	829	843	857
35°	821	840	860
40°	812	839	871
45°	798	840	891
50°	780	845	917
55°	761	858	958
60°	728	875	1011
65°	682	906	1073
70°	620	948	1155
75°	526	1000	1206
80°	415	1007	976
85°	306	766	857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.0
10°-20°	171.6	8.6
20°-30°	262.5	13.1
30°-40°	320.8	16.0
40°-50°	342.0	17.1
50°-60°	326.9	16.4
60°-70°	277.0	13.9
70°-80°	186.1	9.3
80°-90°	52.5	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°	493.7	24.7
0°-40°	814.5	40.7
0°-60°	1483.4	74.2
0°-90°	1999.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	629	628	625	628	628	60
15°	607	607	606	611	610	171
25°	563	565	569	574	575	260
35°	500	504	512	522	524	313
45°	419	426	441	460	468	323
55°	324	336	366	395	408	289
65°	214	236	285	322	337	213
75°	101	138	192	225	232	108
85°	20	41	50	54	56	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	628.7	628.7	628.7	628.7	628.7
2.5°	629.6	629.6	626.7	628.7	628.7
5°	628.7	627.7	624.7	627.7	627.7
7.5°	625.7	624.7	622.7	625.7	624.7
10°	619.7	619.7	617.7	620.7	620.7
12.5°	614.8	613.8	612.8	616.8	615.8
15°	606.8	606.8	605.8	610.8	609.8
17.5°	596.9	597.9	598.9	602.9	603.9
20°	586.0	588.0	589.0	594.9	594.9
22.5°	576.1	577.1	579.1	585.0	585.0
25°	563.2	565.2	569.2	574.1	575.1
27.5°	550.3	551.3	556.3	563.2	564.2
30°	533.5	536.4	542.4	550.3	551.3
32.5°	518.6	521.6	528.5	536.4	538.4
35°	499.7	503.7	511.6	521.6	523.5
37.5°	482.9	485.9	495.8	506.7	509.7
40°	462.1	468.0	477.9	490.8	495.8
42.5°	441.2	447.2	459.1	476.0	481.9
45°	419.4	426.4	441.2	460.1	468.0
47.5°	397.6	405.6	422.4	444.2	453.1
50°	372.8	382.7	403.6	428.4	438.3
52.5°	349.0	360.9	383.7	411.5	424.4
55°	324.2	336.1	365.9	394.6	408.5
57.5°	296.5	312.3	345.1	377.8	392.7
60°	270.7	285.6	325.2	360.9	375.8
62.5°	242.9	262.8	305.4	343.1	358.0
65°	214.2	236.0	284.6	322.3	337.1
67.5°	188.4	212.2	263.8	301.4	316.3
70°	157.7	187.4	241.0	278.6	293.5
72.5°	128.9	161.6	217.2	253.8	267.7
75°	101.1	137.8	192.4	225.1	232.0
77.5°	75.4	114.0	166.6	180.5	175.5
80°	53.5	91.2	129.9	123.0	125.9
82.5°	34.7	69.4	80.3	91.2	94.2
85°	19.8	40.7	49.6	53.5	55.5
87.5°	8.9	14.9	19.8	19.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)