

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: P277028

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277028
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: 24CZ2-35HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1915.7 lumens
Efficiency: N/A
Efficacy: 78.9 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

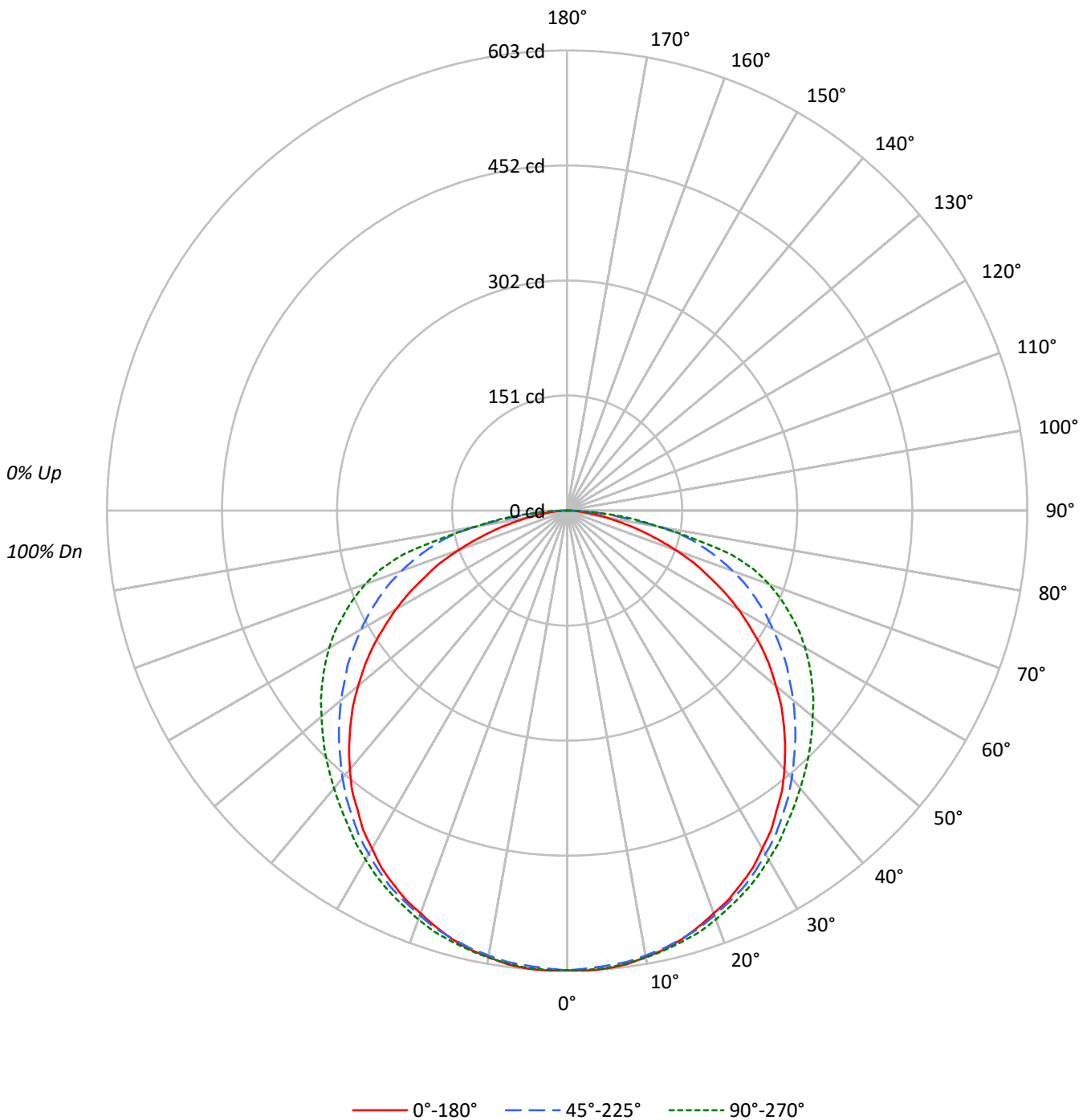
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	811	811	811
5°	814	808	812
10°	811	809	813
15°	810	809	814
20°	804	808	816
25°	801	810	818
30°	794	808	821
35°	787	805	824
40°	778	804	834
45°	765	805	853
50°	748	809	879
55°	729	822	918
60°	698	839	969
65°	653	868	1029
70°	594	908	1107
75°	504	958	1156
80°	397	965	935
85°	293	733	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.0
10°-20°	164.5	8.6
20°-30°	251.5	13.1
30°-40°	307.5	16.0
40°-50°	327.7	17.1
50°-60°	313.3	16.4
60°-70°	265.4	13.9
70°-80°	178.4	9.3
80°-90°	50.3	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°	473.1	24.7
0°-40°	780.6	40.7
0°-60°	1421.6	74.2
0°-90°	1915.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	602	602	599	602	602	57
15°	582	582	581	585	584	164
25°	540	542	545	550	551	249
35°	479	483	490	500	502	300
45°	402	409	423	441	448	310
55°	311	322	351	378	392	277
65°	205	226	273	309	323	204
75°	97	132	184	216	222	104
85°	19	39	48	51	53	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.4	602.4	602.4	602.4	602.4
2.5°	603.4	603.4	600.5	602.4	602.4
5°	602.4	601.5	598.6	601.5	601.5
7.5°	599.6	598.6	596.7	599.6	598.6
10°	593.9	593.9	592.0	594.8	594.8
12.5°	589.1	588.2	587.2	591.0	590.1
15°	581.5	581.5	580.6	585.3	584.4
17.5°	572.0	573.0	573.9	577.7	578.7
20°	561.6	563.5	564.4	570.1	570.1
22.5°	552.1	553.0	554.9	560.6	560.6
25°	539.7	541.6	545.4	550.2	551.1
27.5°	527.4	528.3	533.1	539.7	540.7
30°	511.2	514.1	519.8	527.4	528.3
32.5°	497.0	499.8	506.5	514.1	516.0
35°	478.9	482.7	490.3	499.8	501.7
37.5°	462.8	465.6	475.1	485.6	488.4
40°	442.8	448.5	458.0	470.4	475.1
42.5°	422.9	428.6	440.0	456.1	461.8
45°	401.9	408.6	422.9	440.9	448.5
47.5°	381.0	388.6	404.8	425.7	434.3
50°	357.3	366.8	386.7	410.5	420.0
52.5°	334.5	345.9	367.7	394.3	406.7
55°	310.7	322.1	350.6	378.2	391.5
57.5°	284.1	299.3	330.7	362.0	376.3
60°	259.4	273.7	311.7	345.9	360.1
62.5°	232.8	251.8	292.7	328.8	343.0
65°	205.2	226.2	272.7	308.8	323.1
67.5°	180.5	203.3	252.8	288.9	303.1
70°	151.1	179.6	230.9	267.0	281.3
72.5°	123.5	154.9	208.1	243.3	256.6
75°	96.9	132.1	184.3	215.7	222.4
77.5°	72.2	109.3	159.6	172.9	168.2
80°	51.3	87.4	124.5	117.8	120.7
82.5°	33.3	66.5	77.0	87.4	90.3
85°	19.0	39.0	47.5	51.3	53.2
87.5°	8.6	14.3	19.0	19.0	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)