

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: P277116

Luminaire Tested: **24CZ2-35-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277116
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-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1773.2 lumens
Efficiency: N/A
Efficacy: 68.3 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

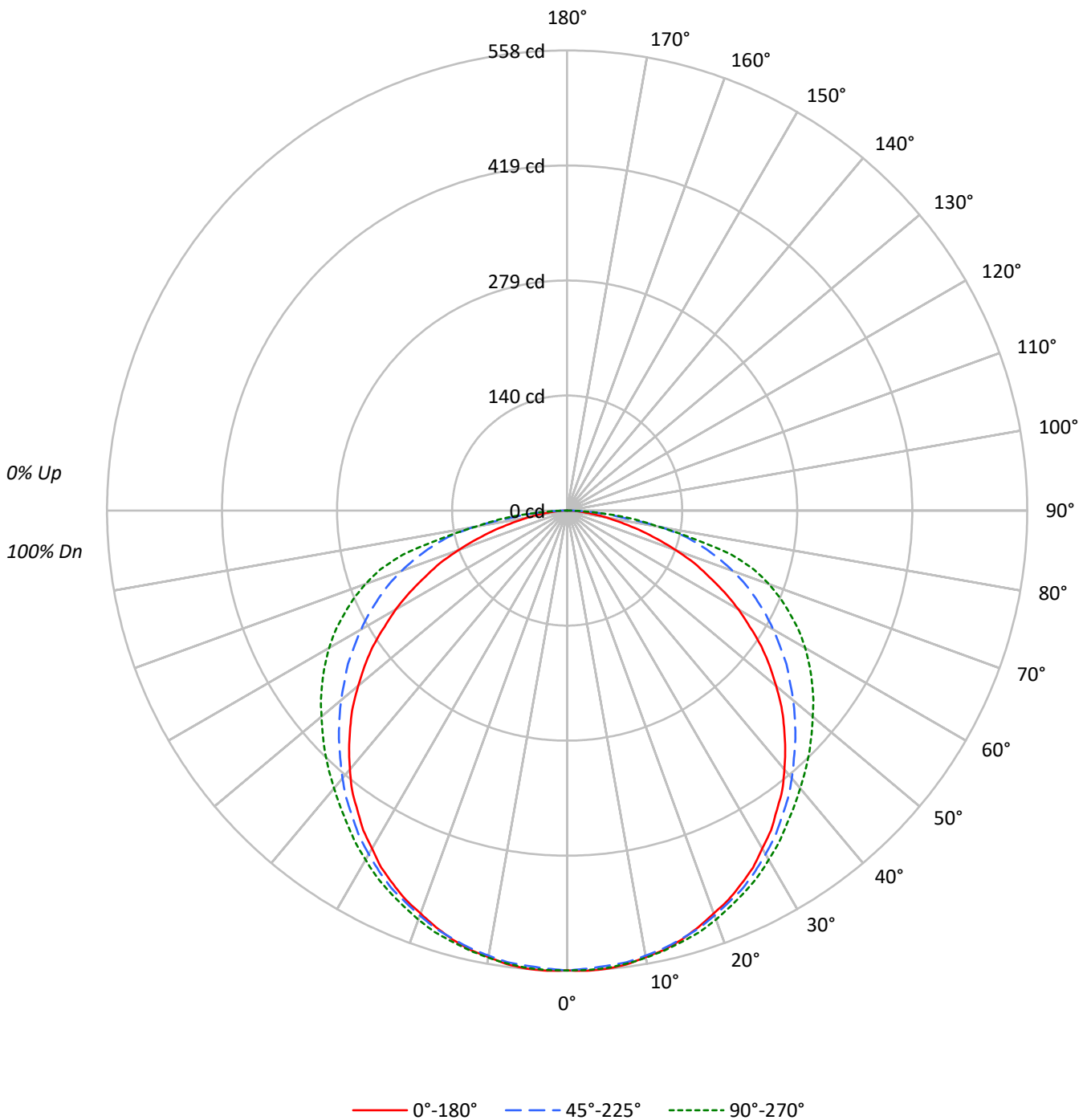
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	750	750	750
5°	753	748	752
10°	751	749	752
15°	750	749	753
20°	744	748	756
25°	742	750	757
30°	735	747	760
35°	728	745	763
40°	720	745	772
45°	708	745	790
50°	692	749	814
55°	675	761	850
60°	646	776	897
65°	605	804	952
70°	550	841	1024
75°	466	887	1070
80°	368	893	865
85°	272	679	761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.0
10°-20°	152.2	8.6
20°-30°	232.8	13.1
30°-40°	284.6	16.0
40°-50°	303.3	17.1
50°-60°	290.0	16.4
60°-70°	245.7	13.9
70°-80°	165.1	9.3
80°-90°	46.6	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°	437.9	24.7
0°-40°	722.5	40.7
0°-60°	1315.9	74.2
0°-90°	1773.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	558	557	554	557	557	53
15°	538	538	537	542	541	152
25°	500	501	505	509	510	230
35°	443	447	454	463	464	278
45°	372	378	391	408	415	287
55°	288	298	324	350	362	256
65°	190	209	252	286	299	189
75°	90	122	171	200	206	96
85°	18	36	44	48	49	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.6	557.6	557.6	557.6	557.6
2.5°	558.5	558.5	555.9	557.6	557.6
5°	557.6	556.7	554.1	556.7	556.7
7.5°	555.0	554.1	552.3	555.0	554.1
10°	549.7	549.7	548.0	550.6	550.6
12.5°	545.3	544.4	543.6	547.1	546.2
15°	538.3	538.3	537.4	541.8	540.9
17.5°	529.5	530.4	531.2	534.8	535.6
20°	519.8	521.6	522.4	527.7	527.7
22.5°	511.0	511.9	513.6	518.9	518.9
25°	499.6	501.3	504.9	509.3	510.1
27.5°	488.1	489.0	493.4	499.6	500.5
30°	473.2	475.8	481.1	488.1	489.0
32.5°	460.0	462.6	468.8	475.8	477.6
35°	443.3	446.8	453.8	462.6	464.4
37.5°	428.3	431.0	439.8	449.4	452.1
40°	409.9	415.1	423.9	435.4	439.8
42.5°	391.4	396.7	407.2	422.2	427.5
45°	372.0	378.2	391.4	408.1	415.1
47.5°	352.7	359.7	374.7	394.0	401.9
50°	330.7	339.5	358.0	380.0	388.8
52.5°	309.6	320.2	340.4	365.0	376.4
55°	287.6	298.2	324.5	350.1	362.4
57.5°	263.0	277.1	306.1	335.1	348.3
60°	240.1	253.3	288.5	320.2	333.3
62.5°	215.5	233.1	270.9	304.3	317.5
65°	190.0	209.3	252.4	285.8	299.0
67.5°	167.1	188.2	234.0	267.4	280.6
70°	139.8	166.2	213.7	247.1	260.3
72.5°	114.3	143.4	192.6	225.2	237.5
75°	89.7	122.3	170.6	199.7	205.8
77.5°	66.8	101.1	147.8	160.1	155.7
80°	47.5	80.9	115.2	109.1	111.7
82.5°	30.8	61.6	71.2	80.9	83.6
85°	17.6	36.1	44.0	47.5	49.3
87.5°	7.9	13.2	17.6	17.6	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)