

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: P263368

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-SQP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1993.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

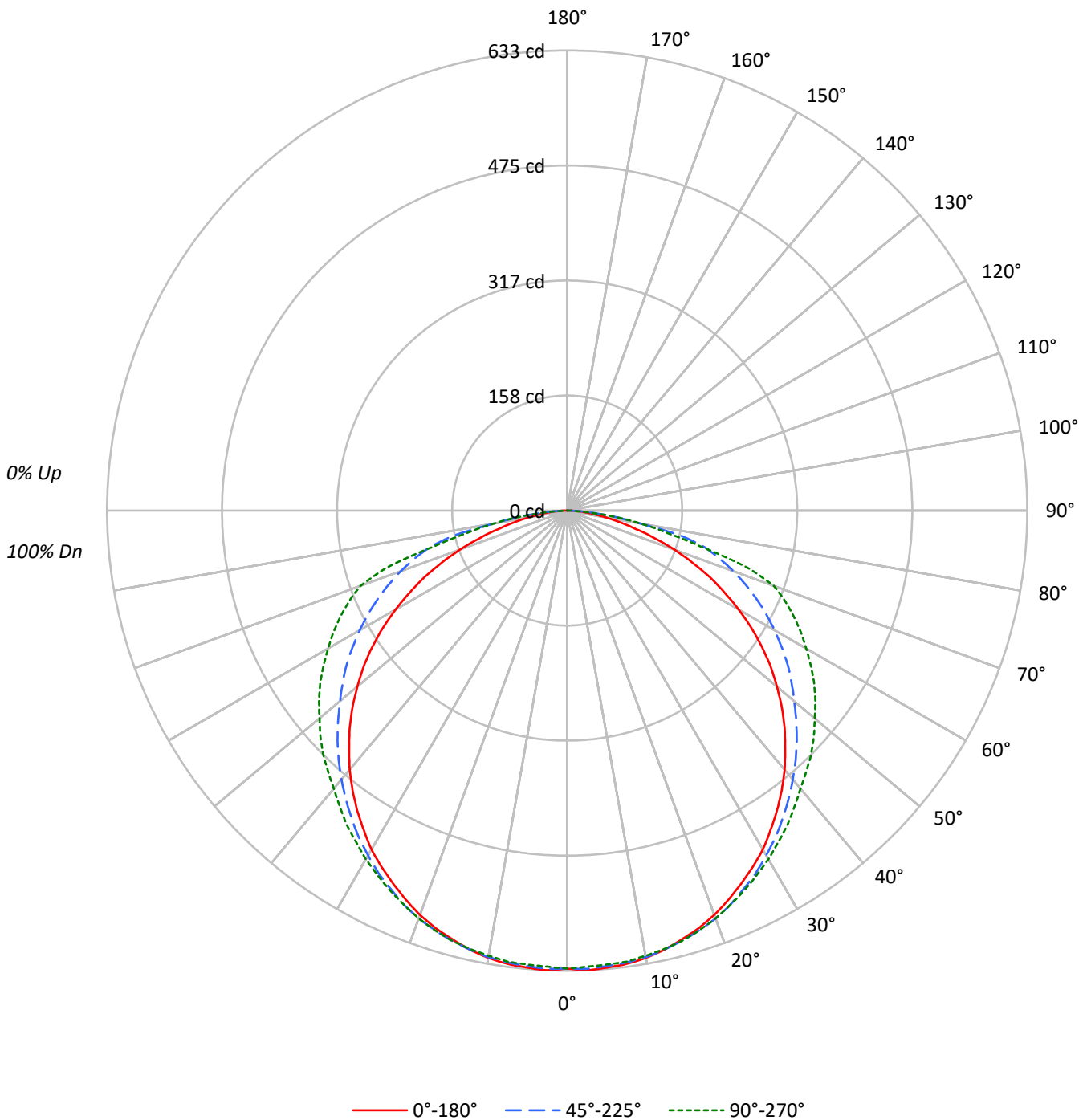
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	848	848	848
5°	852	850	847
10°	854	852	850
15°	850	853	853
20°	848	855	855
25°	841	853	856
30°	836	851	860
35°	827	849	867
40°	817	848	877
45°	805	850	903
50°	789	853	931
55°	768	869	973
60°	734	886	1022
65°	688	914	1095
70°	616	956	1191
75°	508	1022	985
80°	415	790	797
85°	333	525	492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.0
10°-20°	172.7	8.7
20°-30°	263.9	13.2
30°-40°	322.7	16.2
40°-50°	345.3	17.3
50°-60°	330.7	16.6
60°-70°	279.7	14.0
70°-80°	177.3	8.9
80°-90°	40.8	2.0
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°	496.4	24.9
0°-40°	819.1	41.1
0°-60°	1495.2	75.0
0°-90°	1993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	631	628	629	628	627	60
15°	610	609	612	612	612	172
25°	566	566	574	576	576	261
35°	503	506	517	524	528	315
45°	423	430	447	465	475	326
55°	327	338	371	402	415	292
65°	216	237	287	326	344	213
75°	98	138	197	196	189	106
85°	22	33	34	31	32	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	630.0	630.0	630.0	630.0	630.0
2.5°	633.1	630.0	631.1	630.0	628.0
5°	631.1	628.0	629.0	628.0	626.9
7.5°	629.0	625.9	626.9	625.9	625.9
10°	624.9	621.8	623.8	622.8	621.8
12.5°	618.7	616.6	618.7	617.7	617.7
15°	610.5	609.4	612.5	612.5	612.5
17.5°	602.2	601.2	605.3	605.3	605.3
20°	591.9	590.9	597.1	597.1	597.1
22.5°	579.6	578.6	586.8	586.8	586.8
25°	566.2	566.2	574.4	576.5	576.5
27.5°	552.8	552.8	562.1	565.2	565.2
30°	538.4	538.4	547.7	551.8	553.8
32.5°	520.9	523.0	533.3	538.4	540.5
35°	503.4	506.5	516.8	524.0	528.1
37.5°	484.9	488.0	500.3	508.5	513.7
40°	465.3	469.4	482.8	493.1	499.3
42.5°	443.7	449.9	465.3	478.7	486.9
45°	423.1	430.3	446.8	465.3	474.6
47.5°	400.5	408.7	427.2	450.9	460.2
50°	376.8	385.0	407.7	434.4	444.7
52.5°	353.1	362.4	389.1	418.0	430.3
55°	327.4	337.7	370.6	401.5	414.9
57.5°	300.6	313.0	350.0	383.0	397.4
60°	272.8	288.2	329.4	364.4	379.9
62.5°	244.0	262.5	308.8	345.9	362.4
65°	216.2	236.8	287.2	326.3	343.8
67.5°	186.3	212.1	265.6	307.8	324.3
70°	156.5	186.3	243.0	286.2	302.7
72.5°	126.6	162.7	220.3	259.4	259.4
75°	97.8	137.9	196.6	195.6	189.4
77.5°	74.1	115.3	161.6	137.9	139.0
80°	53.5	92.7	101.9	101.9	102.9
82.5°	36.0	71.0	65.9	64.9	66.9
85°	21.6	32.9	34.0	30.9	31.9
87.5°	10.3	11.3	9.3	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)