

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: P263625

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-RDP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2308.9 lumens
Efficiency: N/A
Efficacy: 85.1 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

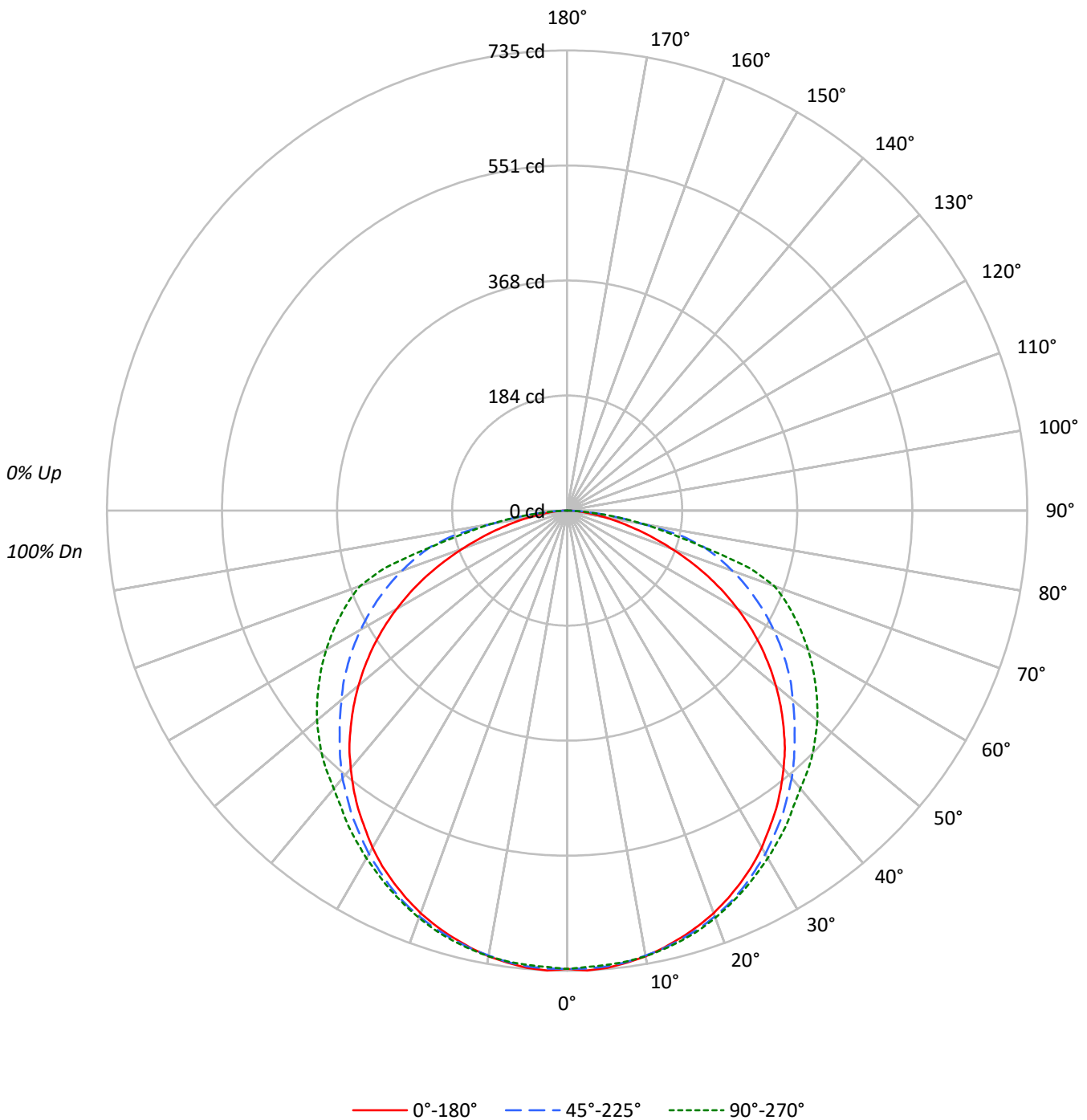
Input Watts (W): 27.13368
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	985	985	985
5°	990	987	984
10°	988	986	988
15°	983	986	990
20°	980	988	991
25°	974	987	992
30°	966	984	996
35°	956	982	1004
40°	944	980	1018
45°	930	977	1053
50°	911	985	1092
55°	885	1003	1136
60°	847	1025	1196
65°	789	1057	1274
70°	697	1104	1386
75°	585	1182	1164
80°	466	934	969
85°	369	631	579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	3.0
10°-20°	199.8	8.7
20°-30°	305.2	13.2
30°-40°	373.1	16.2
40°-50°	399.4	17.3
50°-60°	383.1	16.6
60°-70°	323.4	14.0
70°-80°	206.7	9.0
80°-90°	48.9	2.1
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°	574.4	24.9
0°-40°	947.5	41.0
0°-60°	1729.9	74.9
0°-90°	2308.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	733	728	731	730	728	70
15°	706	704	708	710	710	199
25°	656	655	665	667	668	302
35°	582	586	598	606	612	364
45°	489	497	514	538	554	377
55°	377	390	427	466	484	337
65°	248	272	332	378	400	244
75°	112	160	227	232	224	121
85°	24	40	41	40	38	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.0	732.0	732.0	732.0	732.0
2.5°	735.4	730.8	732.0	732.0	729.7
5°	733.1	728.5	730.8	729.7	728.5
7.5°	728.5	725.1	727.4	727.4	726.3
10°	722.9	719.5	721.7	722.9	722.9
12.5°	714.9	712.6	716.0	716.0	717.2
15°	705.8	703.5	708.1	710.4	710.4
17.5°	695.6	694.5	700.1	701.3	702.4
20°	684.2	683.1	689.9	689.9	692.2
22.5°	670.6	669.4	678.5	678.5	680.8
25°	655.8	654.7	664.9	667.2	668.3
27.5°	639.9	638.8	649.0	652.4	654.7
30°	621.7	621.7	633.1	637.6	641.0
32.5°	601.3	604.7	614.9	621.7	626.3
35°	581.9	586.5	597.8	605.8	611.5
37.5°	560.3	564.9	577.4	587.6	594.4
40°	537.6	543.3	558.1	569.4	579.7
42.5°	514.9	520.6	536.5	553.5	567.2
45°	488.7	496.7	513.7	537.6	553.5
47.5°	462.6	470.5	492.1	521.7	537.6
50°	435.3	444.4	470.5	504.6	521.7
52.5°	406.9	417.1	450.1	486.5	503.5
55°	377.3	389.8	427.4	466.0	484.2
57.5°	346.7	360.3	404.6	445.5	464.9
60°	314.8	331.9	380.8	423.9	444.4
62.5°	281.9	302.3	356.9	401.2	422.8
65°	247.8	271.6	331.9	378.5	400.1
67.5°	212.5	244.4	306.9	355.7	377.3
70°	177.3	214.8	280.7	330.7	352.3
72.5°	144.3	187.5	254.6	301.2	305.7
75°	112.5	160.3	227.3	231.9	223.9
77.5°	84.1	133.0	187.5	167.1	165.9
80°	60.2	106.8	120.5	123.9	125.0
82.5°	39.8	80.7	78.4	80.7	79.6
85°	23.9	39.8	40.9	39.8	37.5
87.5°	11.4	14.8	11.4	10.2	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)