

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: P263154

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263154
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138.5 lumens
Efficiency: N/A
Efficacy: 86.2 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

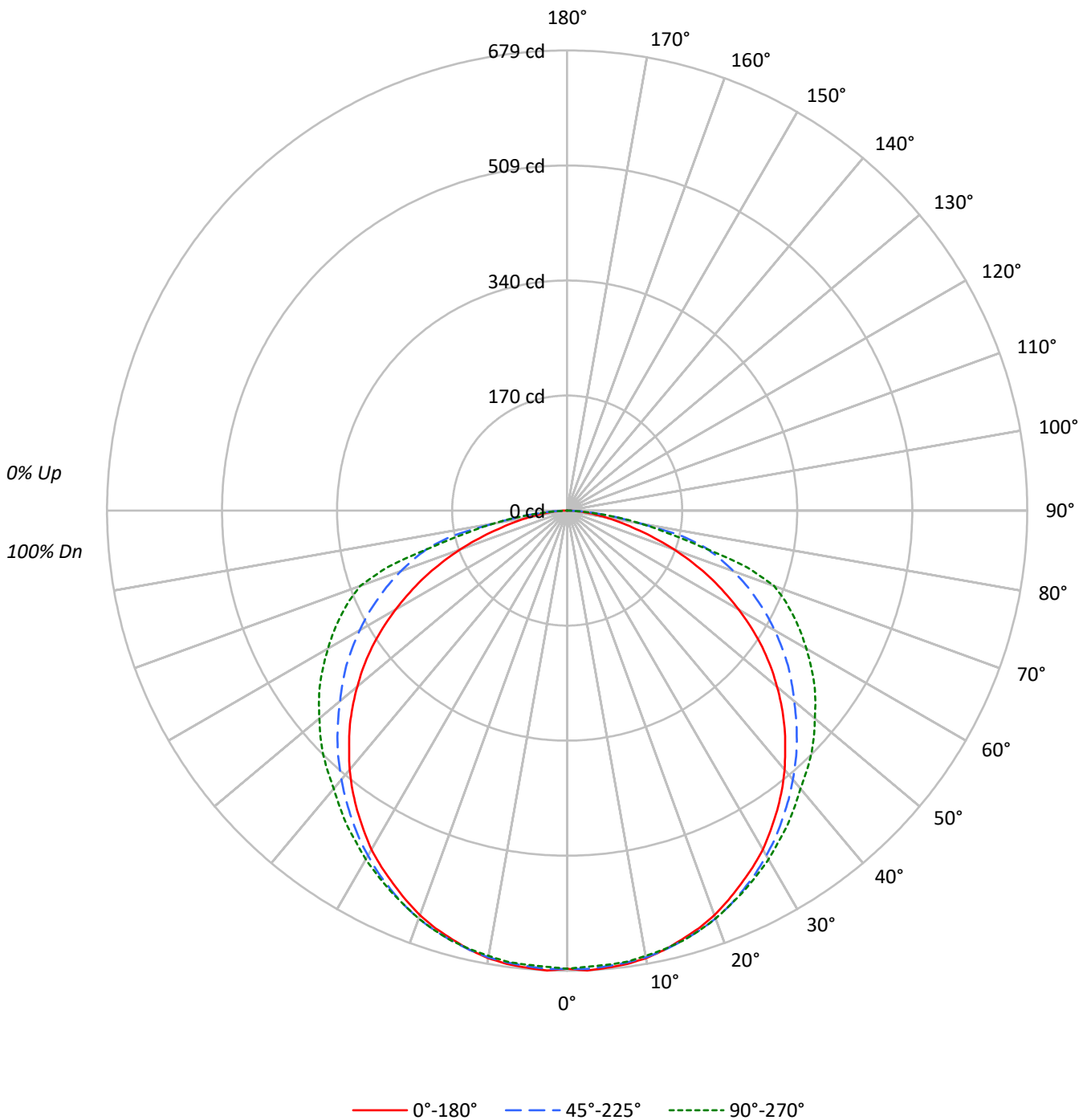
Input Watts (W): 24.80868
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	910	910	910
5°	915	912	909
10°	916	915	912
15°	912	916	916
20°	910	917	917
25°	902	915	918
30°	898	913	923
35°	887	911	931
40°	877	910	941
45°	864	912	969
50°	846	916	999
55°	824	933	1044
60°	788	951	1097
65°	739	981	1174
70°	661	1026	1278
75°	545	1097	1057
80°	445	848	856
85°	358	563	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.0
10°-20°	185.3	8.7
20°-30°	283.2	13.2
30°-40°	346.3	16.2
40°-50°	370.6	17.3
50°-60°	354.8	16.6
60°-70°	300.2	14.0
70°-80°	190.3	8.9
80°-90°	43.8	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°	532.6	24.9
0°-40°	878.9	41.1
0°-60°	1604.3	75.0
0°-90°	2138.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	677	674	675	674	673	64
15°	655	654	657	657	657	185
25°	608	608	616	619	619	280
35°	540	544	554	562	567	338
45°	454	462	479	499	509	350
55°	351	362	398	431	445	313
65°	232	254	308	350	369	229
75°	105	148	211	210	203	114
85°	23	35	36	33	34	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.0	676.0	676.0	676.0	676.0
2.5°	679.4	676.0	677.1	676.0	673.8
5°	677.1	673.8	674.9	673.8	672.7
7.5°	674.9	671.6	672.7	671.6	671.6
10°	670.5	667.2	669.4	668.3	667.2
12.5°	663.9	661.7	663.9	662.8	662.8
15°	655.0	653.9	657.3	657.3	657.3
17.5°	646.2	645.1	649.5	649.5	649.5
20°	635.2	634.1	640.7	640.7	640.7
22.5°	621.9	620.8	629.6	629.6	629.6
25°	607.5	607.5	616.4	618.6	618.6
27.5°	593.2	593.2	603.1	606.4	606.4
30°	577.7	577.7	587.7	592.1	594.3
32.5°	558.9	561.2	572.2	577.7	579.9
35°	540.2	543.5	554.5	562.3	566.7
37.5°	520.3	523.6	536.9	545.7	551.2
40°	499.3	503.7	518.1	529.1	535.7
42.5°	476.1	482.7	499.3	513.7	522.5
45°	454.0	461.7	479.4	499.3	509.2
47.5°	429.7	438.5	458.4	483.8	493.8
50°	404.3	413.1	437.4	466.2	477.2
52.5°	378.9	388.8	417.6	448.5	461.7
55°	351.3	362.3	397.7	430.8	445.2
57.5°	322.6	335.8	375.6	410.9	426.4
60°	292.7	309.3	353.5	391.0	407.6
62.5°	261.8	281.7	331.4	371.2	388.8
65°	232.0	254.1	308.2	350.2	368.9
67.5°	199.9	227.6	285.0	330.3	348.0
70°	167.9	199.9	260.7	307.1	324.8
72.5°	135.9	174.5	236.4	278.4	278.4
75°	104.9	148.0	211.0	209.9	203.3
77.5°	79.5	123.7	173.4	148.0	149.1
80°	57.4	99.4	109.4	109.4	110.5
82.5°	38.7	76.2	70.7	69.6	71.8
85°	23.2	35.3	36.5	33.1	34.2
87.5°	11.0	12.2	9.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)