

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: P263231

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263231
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138.0 lumens
Efficiency: N/A
Efficacy: 88.4 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

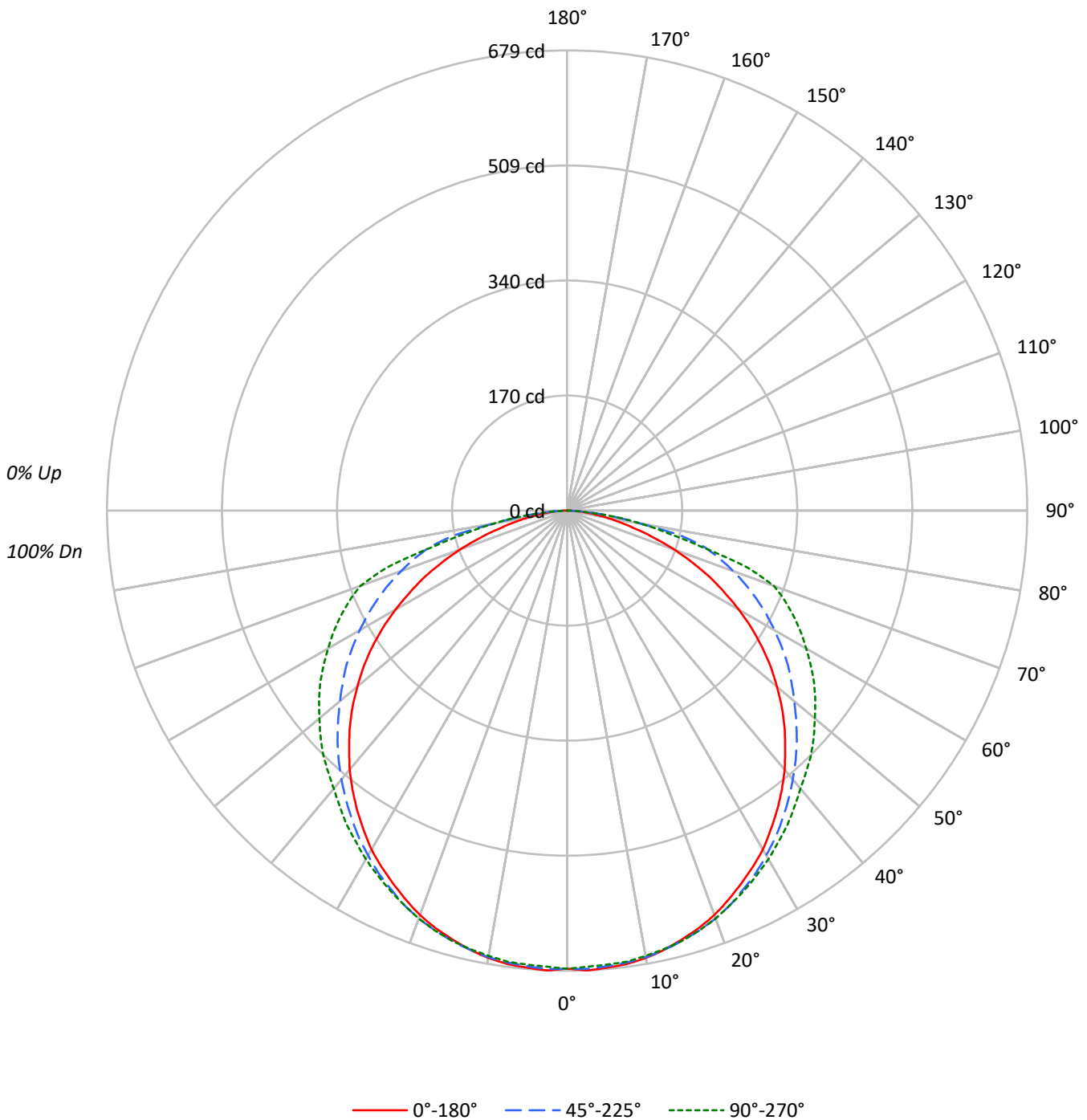
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	909	909	909
5°	914	911	908
10°	916	914	911
15°	912	915	915
20°	909	917	917
25°	902	915	918
30°	897	913	923
35°	887	911	930
40°	877	910	941
45°	864	912	969
50°	846	915	999
55°	824	933	1044
60°	788	951	1097
65°	738	981	1174
70°	661	1025	1277
75°	545	1096	1056
80°	445	847	855
85°	358	562	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.0
10°-20°	185.2	8.7
20°-30°	283.1	13.2
30°-40°	346.2	16.2
40°-50°	370.5	17.3
50°-60°	354.7	16.6
60°-70°	300.1	14.0
70°-80°	190.2	8.9
80°-90°	43.7	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°	532.5	24.9
0°-40°	878.7	41.1
0°-60°	1603.9	75.0
0°-90°	2138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	677	674	675	674	672	64
15°	655	654	657	657	657	185
25°	607	607	616	618	618	280
35°	540	543	554	562	566	338
45°	454	462	479	499	509	350
55°	351	362	398	431	445	313
65°	232	254	308	350	369	228
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°	675.9	675.9	675.9	675.9	675.9
2.5°	679.2	675.9	677.0	675.9	673.7
5°	677.0	673.7	674.8	673.7	672.5
7.5°	674.8	671.4	672.5	671.4	671.4
10°	670.3	667.0	669.2	668.1	667.0
12.5°	663.7	661.5	663.7	662.6	662.6
15°	654.9	653.8	657.1	657.1	657.1
17.5°	646.0	644.9	649.4	649.4	649.4
20°	635.0	633.9	640.5	640.5	640.5
22.5°	621.7	620.6	629.5	629.5	629.5
25°	607.4	607.4	616.2	618.4	618.4
27.5°	593.0	593.0	603.0	606.3	606.3
30°	577.6	577.6	587.5	591.9	594.1
32.5°	558.8	561.0	572.1	577.6	579.8
35°	540.0	543.3	554.4	562.1	566.5
37.5°	520.1	523.5	536.7	545.5	551.1
40°	499.2	503.6	517.9	529.0	535.6
42.5°	476.0	482.6	499.2	513.5	522.4
45°	453.9	461.6	479.3	499.2	509.1
47.5°	429.6	438.4	458.3	483.7	493.6
50°	404.2	413.0	437.3	466.0	477.1
52.5°	378.8	388.7	417.4	448.4	461.6
55°	351.2	362.2	397.6	430.7	445.1
57.5°	322.5	335.7	375.5	410.8	426.3
60°	292.7	309.2	353.4	390.9	407.5
62.5°	261.7	281.6	331.3	371.1	388.7
65°	231.9	254.0	308.1	350.1	368.9
67.5°	199.9	227.5	284.9	330.2	347.9
70°	167.9	199.9	260.6	307.0	324.7
72.5°	135.8	174.5	236.3	278.3	278.3
75°	104.9	148.0	210.9	209.8	203.2
77.5°	79.5	123.7	173.4	148.0	149.1
80°	57.4	99.4	109.3	109.3	110.4
82.5°	38.7	76.2	70.7	69.6	71.8
85°	23.2	35.3	36.4	33.1	34.2
87.5°	11.0	12.1	9.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)