

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: P263323

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263323
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-LD5-35SE-SQP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2300.0 lumens
Efficiency: N/A
Efficacy: 88.0 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

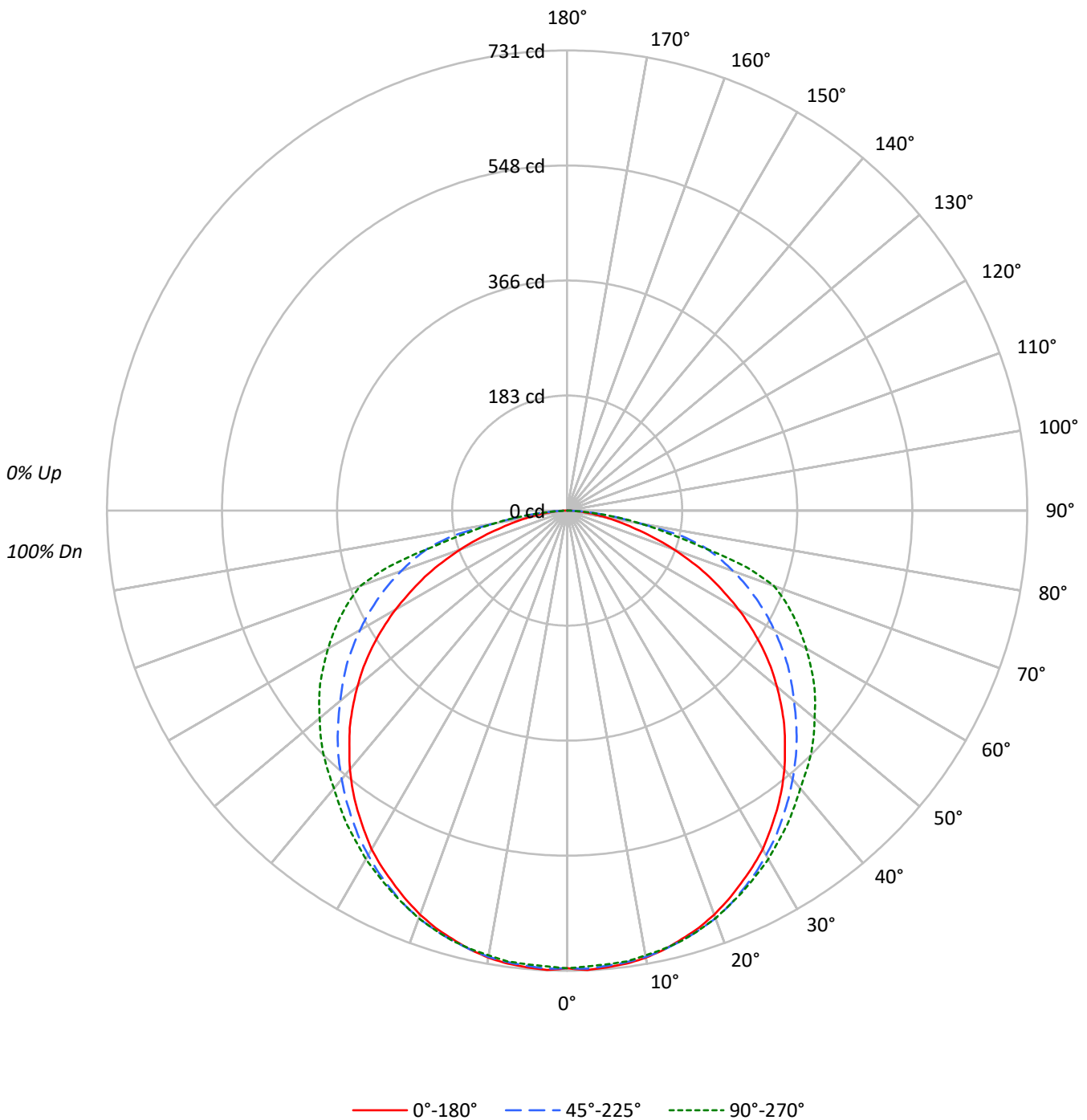
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	978	978	978
5°	984	980	977
10°	985	984	980
15°	981	985	985
20°	978	987	987
25°	970	984	988
30°	965	982	993
35°	954	980	1001
40°	943	979	1012
45°	929	981	1042
50°	910	985	1074
55°	886	1003	1123
60°	847	1023	1180
65°	794	1055	1263
70°	710	1103	1374
75°	587	1180	1136
80°	479	911	921
85°	384	605	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	3.0
10°-20°	199.3	8.7
20°-30°	304.5	13.2
30°-40°	372.5	16.2
40°-50°	398.5	17.3
50°-60°	381.6	16.6
60°-70°	322.8	14.0
70°-80°	204.6	8.9
80°-90°	47.1	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°	572.9	24.9
0°-40°	945.3	41.1
0°-60°	1725.5	75.0
0°-90°	2300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	728	725	726	725	724	69
15°	704	703	707	707	707	199
25°	653	653	663	665	665	301
35°	581	584	596	605	610	363
45°	488	497	516	537	548	376
55°	378	390	428	463	479	337
65°	250	273	332	377	397	246
75°	113	159	227	226	219	123
85°	25	38	39	36	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.1	727.1	727.1	727.1	727.1
2.5°	730.6	727.1	728.3	727.1	724.7
5°	728.3	724.7	725.9	724.7	723.5
7.5°	725.9	722.3	723.5	722.3	722.3
10°	721.1	717.6	719.9	718.8	717.6
12.5°	714.0	711.6	714.0	712.8	712.8
15°	704.5	703.3	706.9	706.9	706.9
17.5°	695.0	693.8	698.6	698.6	698.6
20°	683.1	681.9	689.1	689.1	689.1
22.5°	668.9	667.7	677.2	677.2	677.2
25°	653.4	653.4	662.9	665.3	665.3
27.5°	638.0	638.0	648.7	652.2	652.2
30°	621.3	621.3	632.0	636.8	639.2
32.5°	601.1	603.5	615.4	621.3	623.7
35°	580.9	584.5	596.4	604.7	609.5
37.5°	559.6	563.1	577.4	586.9	592.8
40°	537.0	541.7	557.2	569.1	576.2
42.5°	512.0	519.2	537.0	552.4	561.9
45°	488.3	496.6	515.6	537.0	547.7
47.5°	462.1	471.6	493.0	520.4	531.0
50°	434.8	444.3	470.5	501.3	513.2
52.5°	407.5	418.2	449.1	482.3	496.6
55°	377.8	389.7	427.7	463.3	478.8
57.5°	346.9	361.2	403.9	441.9	458.6
60°	314.8	332.6	380.2	420.6	438.4
62.5°	281.6	302.9	356.4	399.2	418.2
65°	249.5	273.2	331.5	376.6	396.8
67.5°	215.0	244.7	306.5	355.2	374.2
70°	180.6	215.0	280.4	330.3	349.3
72.5°	146.1	187.7	254.2	299.4	299.4
75°	112.9	159.2	226.9	225.7	218.6
77.5°	85.5	133.1	186.5	159.2	160.4
80°	61.8	106.9	117.6	117.6	118.8
82.5°	41.6	82.0	76.0	74.8	77.2
85°	24.9	38.0	39.2	35.6	36.8
87.5°	11.9	13.1	10.7	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)