

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: P263483

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263483
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-LD5-50SE-SQP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2595.0 lumens
Efficiency: N/A
Efficacy: 65.5 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

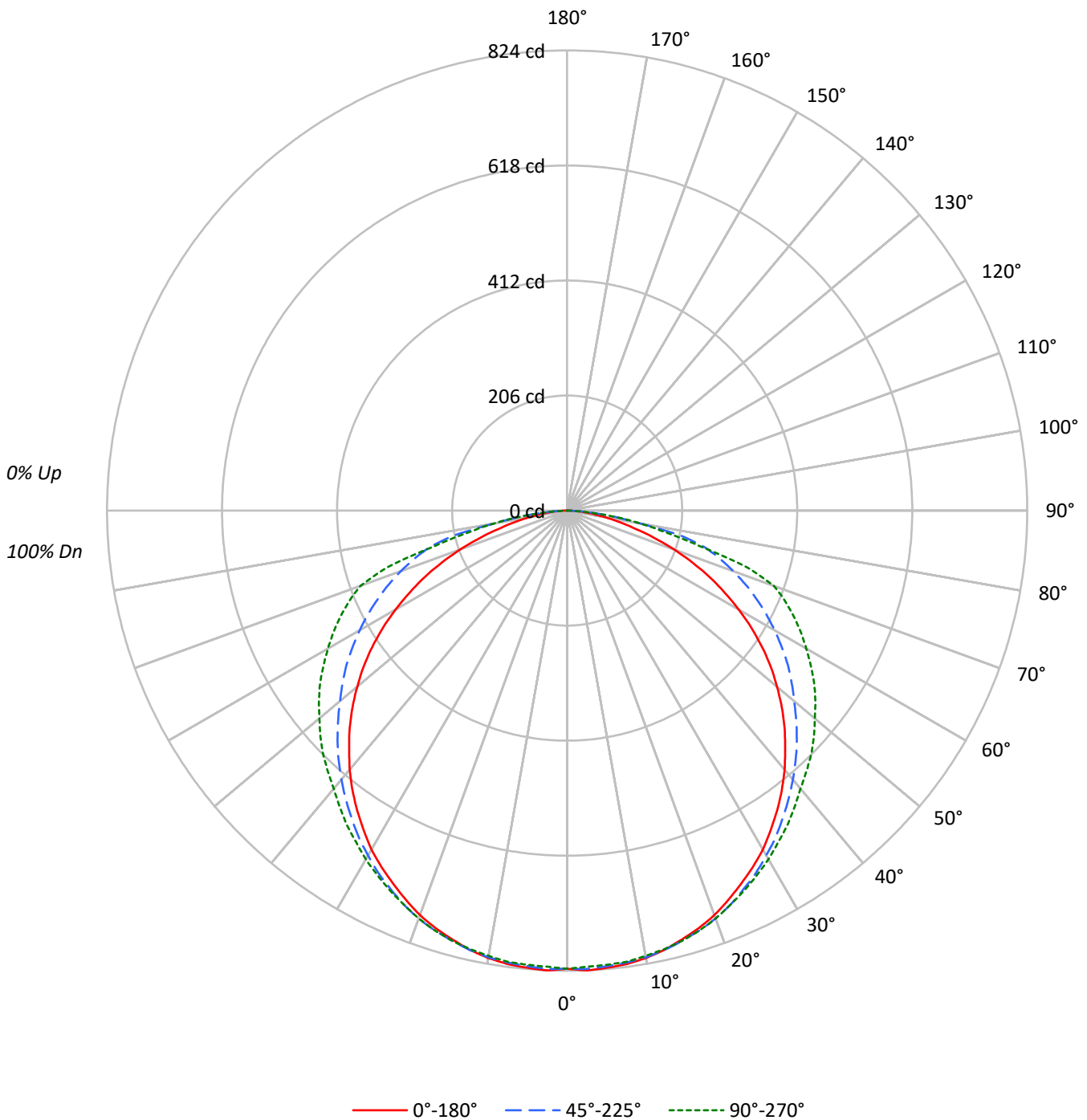
Input Watts (W): 39.618
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1104	1104	1104
5°	1110	1106	1103
10°	1112	1110	1106
15°	1107	1111	1111
20°	1104	1113	1113
25°	1094	1110	1114
30°	1089	1108	1120
35°	1077	1105	1129
40°	1064	1104	1142
45°	1048	1107	1176
50°	1027	1111	1212
55°	1000	1132	1267
60°	956	1154	1331
65°	896	1191	1425
70°	801	1244	1550
75°	662	1331	1282
80°	540	1028	1038
85°	434	682	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.0
10°-20°	224.8	8.7
20°-30°	343.6	13.2
30°-40°	420.2	16.2
40°-50°	449.7	17.3
50°-60°	430.6	16.6
60°-70°	364.2	14.0
70°-80°	230.9	8.9
80°-90°	53.1	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°	646.3	24.9
0°-40°	1066.5	41.1
0°-60°	1946.8	75.0
0°-90°	2595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	822	818	819	818	816	78
15°	795	794	798	798	798	225
25°	737	737	748	751	751	340
35°	656	660	673	682	688	410
45°	551	560	582	606	618	424
55°	426	440	482	523	540	380
65°	282	308	374	425	448	277
75°	127	180	256	255	247	138
85°	28	43	44	40	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.3	820.3	820.3	820.3	820.3
2.5°	824.3	820.3	821.7	820.3	817.6
5°	821.7	817.6	819.0	817.6	816.3
7.5°	819.0	815.0	816.3	815.0	815.0
10°	813.6	809.6	812.3	810.9	809.6
12.5°	805.6	802.9	805.6	804.2	804.2
15°	794.9	793.5	797.5	797.5	797.5
17.5°	784.1	782.8	788.2	788.2	788.2
20°	770.7	769.4	777.4	777.4	777.4
22.5°	754.6	753.3	764.0	764.0	764.0
25°	737.2	737.2	747.9	750.6	750.6
27.5°	719.8	719.8	731.9	735.9	735.9
30°	701.0	701.0	713.1	718.5	721.1
32.5°	678.2	680.9	694.3	701.0	703.7
35°	655.5	659.5	672.9	682.3	687.6
37.5°	631.3	635.4	651.4	662.2	668.9
40°	605.9	611.2	628.7	642.1	650.1
42.5°	577.7	585.8	605.9	623.3	634.0
45°	550.9	560.3	581.7	605.9	617.9
47.5°	521.4	532.1	556.3	587.1	599.2
50°	490.6	501.3	530.8	565.7	579.1
52.5°	459.8	471.8	506.7	544.2	560.3
55°	426.2	439.7	482.5	522.8	540.2
57.5°	391.4	407.5	455.7	498.6	517.4
60°	355.2	375.3	428.9	474.5	494.6
62.5°	317.7	341.8	402.1	450.4	471.8
65°	281.5	308.3	374.0	424.9	447.7
67.5°	242.6	276.1	345.8	400.8	422.2
70°	203.7	242.6	316.3	372.6	394.1
72.5°	164.9	211.8	286.8	337.8	337.8
75°	127.3	179.6	256.0	254.7	246.6
77.5°	96.5	150.1	210.4	179.6	181.0
80°	69.7	120.6	132.7	132.7	134.0
82.5°	46.9	92.5	85.8	84.4	87.1
85°	28.1	42.9	44.2	40.2	41.6
87.5°	13.4	14.7	12.1	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)