

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: P263396

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263396
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-LD5-50-SQP-UNV-L92765-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: 2939.0 lumens
Efficiency: N/A
Efficacy: 81.4 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

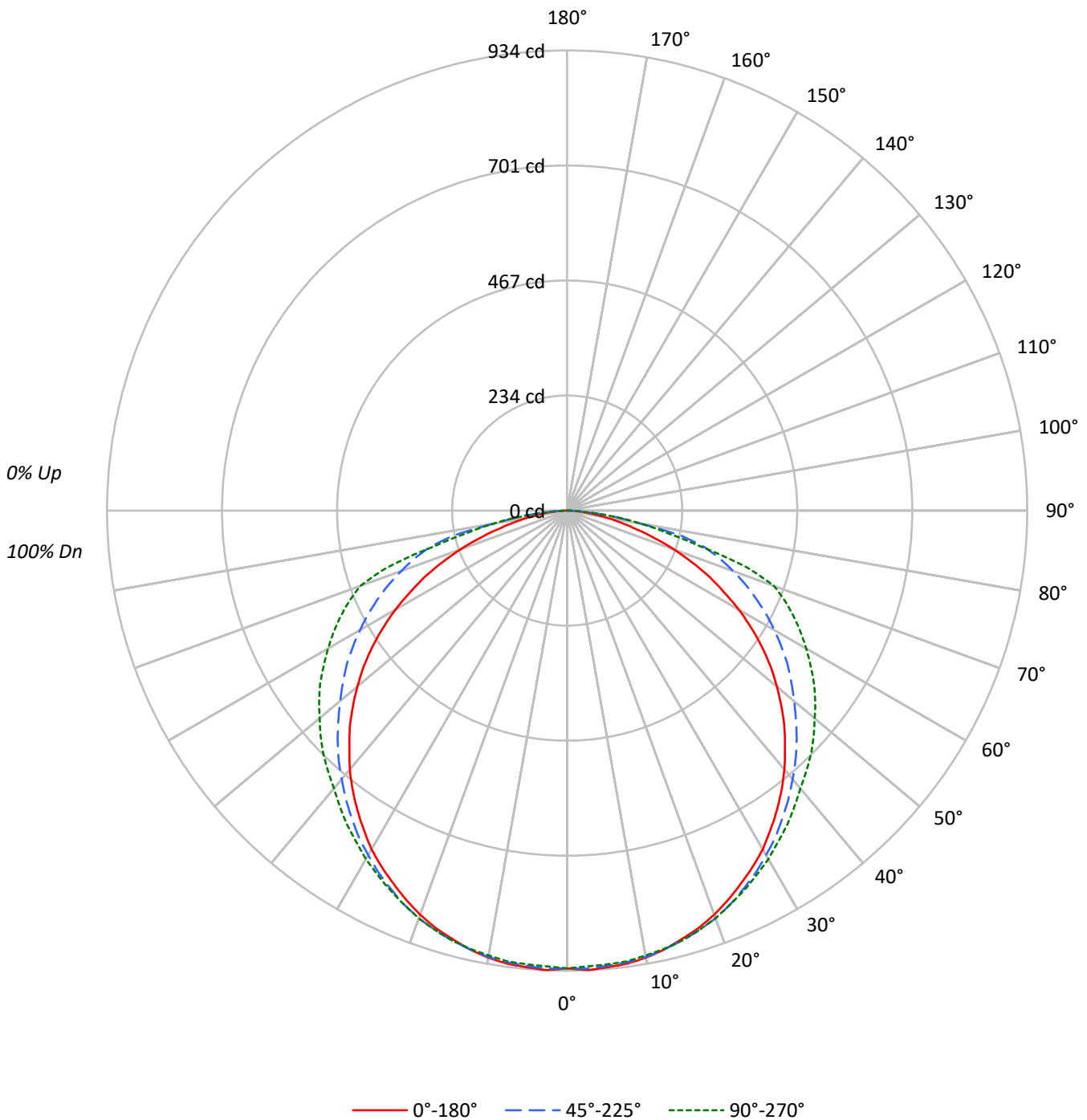
Input Watts (W): 36.084
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1250	1250	1250
5°	1257	1253	1249
10°	1259	1257	1253
15°	1254	1258	1258
20°	1250	1261	1261
25°	1240	1258	1262
30°	1234	1255	1269
35°	1219	1252	1279
40°	1205	1251	1293
45°	1187	1254	1332
50°	1163	1258	1373
55°	1133	1282	1435
60°	1083	1307	1507
65°	1015	1348	1614
70°	908	1410	1756
75°	750	1508	1452
80°	611	1165	1176
85°	492	773	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.0
10°-20°	254.6	8.7
20°-30°	389.1	13.2
30°-40°	475.9	16.2
40°-50°	509.3	17.3
50°-60°	487.7	16.6
60°-70°	412.5	14.0
70°-80°	261.5	8.9
80°-90°	60.2	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°	732.0	24.9
0°-40°	1207.9	41.1
0°-60°	2204.9	75.0
0°-90°	2939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	931	926	928	926	924	89
15°	900	899	903	903	903	254
25°	835	835	847	850	850	385
35°	742	747	762	773	779	464
45°	624	635	659	686	700	481
55°	483	498	546	592	612	431
65°	319	349	424	481	507	314
75°	144	203	290	288	279	157
85°	32	49	50	46	47	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.1	929.1	929.1	929.1	929.1
2.5°	933.6	929.1	930.6	929.1	926.0
5°	930.6	926.0	927.6	926.0	924.5
7.5°	927.6	923.0	924.5	923.0	923.0
10°	921.5	916.9	920.0	918.4	916.9
12.5°	912.4	909.3	912.4	910.9	910.9
15°	900.2	898.7	903.3	903.3	903.3
17.5°	888.1	886.6	892.6	892.6	892.6
20°	872.9	871.4	880.5	880.5	880.5
22.5°	854.7	853.2	865.3	865.3	865.3
25°	835.0	835.0	847.1	850.1	850.1
27.5°	815.2	815.2	828.9	833.4	833.4
30°	794.0	794.0	807.6	813.7	816.7
32.5°	768.2	771.2	786.4	794.0	797.0
35°	742.3	746.9	762.1	772.7	778.8
37.5°	715.0	719.6	737.8	749.9	757.5
40°	686.2	692.3	712.0	727.2	736.3
42.5°	654.3	663.4	686.2	705.9	718.1
45°	623.9	634.6	658.9	686.2	699.8
47.5°	590.5	602.7	630.0	664.9	678.6
50°	555.6	567.8	601.2	640.6	655.8
52.5°	520.7	534.4	573.8	616.3	634.6
55°	482.8	497.9	546.5	592.1	611.8
57.5°	443.3	461.5	516.2	564.7	586.0
60°	402.3	425.1	485.8	537.4	560.2
62.5°	359.8	387.1	455.4	510.1	534.4
65°	318.8	349.2	423.5	481.2	507.0
67.5°	274.8	312.7	391.7	453.9	478.2
70°	230.8	274.8	358.3	422.0	446.3
72.5°	186.7	239.9	324.9	382.6	382.6
75°	144.2	203.4	290.0	288.4	279.3
77.5°	109.3	170.0	238.3	203.4	204.9
80°	78.9	136.6	150.3	150.3	151.8
82.5°	53.1	104.7	97.2	95.6	98.7
85°	31.9	48.6	50.1	45.5	47.1
87.5°	15.2	16.7	13.7	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)