

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: P263345

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263345
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-LD5-45SE-SQP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3120.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

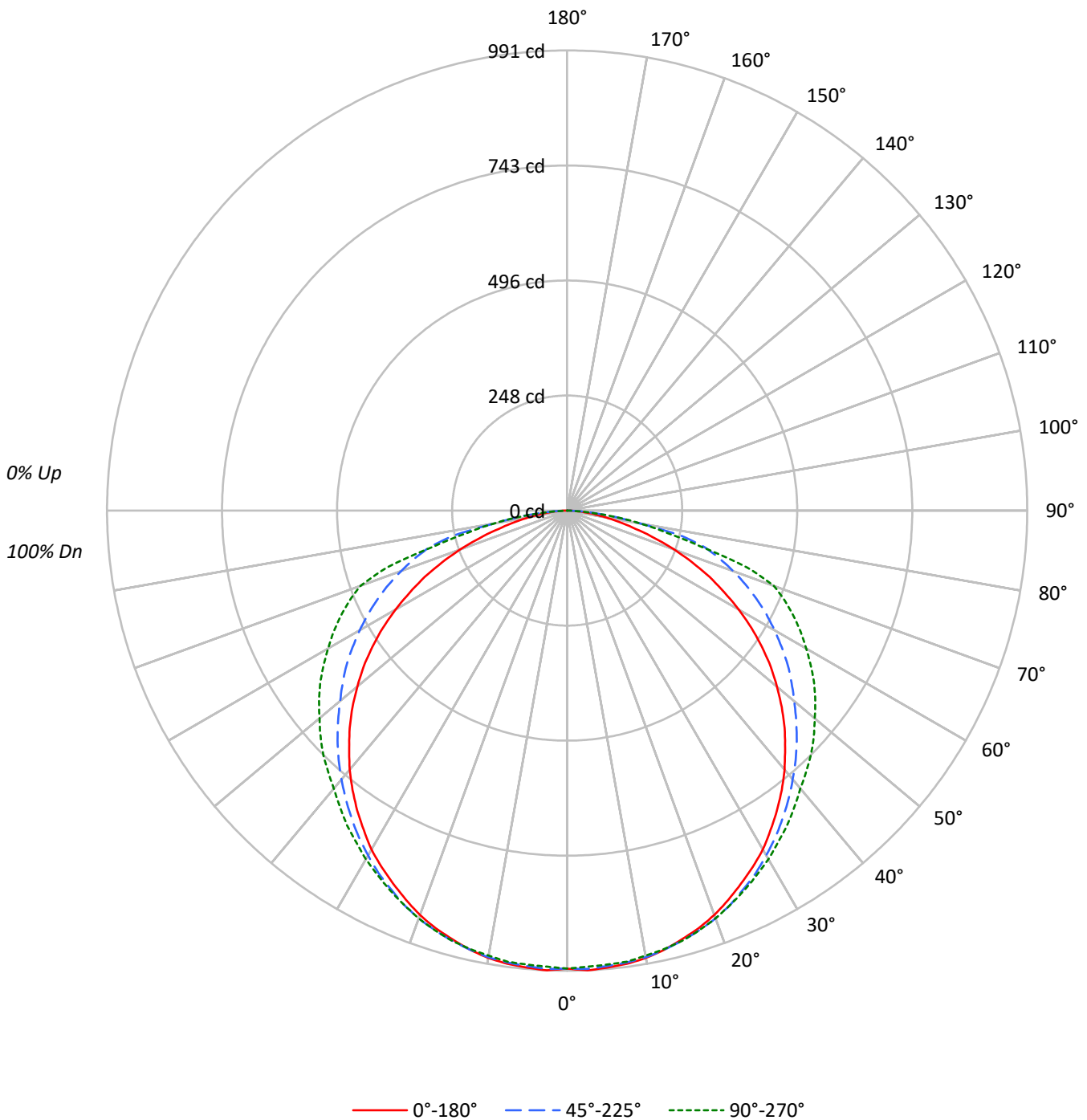
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1327	1327	1327
5°	1334	1330	1326
10°	1336	1334	1330
15°	1331	1336	1336
20°	1327	1338	1338
25°	1316	1335	1340
30°	1310	1332	1347
35°	1294	1329	1358
40°	1279	1327	1373
45°	1260	1331	1414
50°	1235	1336	1457
55°	1202	1361	1524
60°	1149	1388	1600
65°	1077	1431	1714
70°	964	1496	1864
75°	796	1600	1541
80°	649	1236	1249
85°	522	821	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.0
10°-20°	270.3	8.7
20°-30°	413.1	13.2
30°-40°	505.3	16.2
40°-50°	540.6	17.3
50°-60°	517.7	16.6
60°-70°	437.9	14.0
70°-80°	277.6	8.9
80°-90°	63.9	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°	777.1	24.9
0°-40°	1282.3	41.1
0°-60°	2340.6	75.0
0°-90°	3120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	988	983	985	983	982	94
15°	956	954	959	959	959	270
25°	886	886	899	902	902	409
35°	788	793	809	820	827	493
45°	662	674	699	728	743	510
55°	512	529	580	628	650	457
65°	338	371	450	511	538	333
75°	153	216	308	306	296	166
85°	34	52	53	48	50	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.3	986.3	986.3	986.3	986.3
2.5°	991.1	986.3	987.9	986.3	983.1
5°	987.9	983.1	984.7	983.1	981.5
7.5°	984.7	979.8	981.5	979.8	979.8
10°	978.2	973.4	976.6	975.0	973.4
12.5°	968.6	965.3	968.6	967.0	967.0
15°	955.7	954.1	958.9	958.9	958.9
17.5°	942.8	941.2	947.6	947.6	947.6
20°	926.7	925.1	934.7	934.7	934.7
22.5°	907.3	905.7	918.6	918.6	918.6
25°	886.4	886.4	899.3	902.5	902.5
27.5°	865.4	865.4	879.9	884.8	884.8
30°	842.9	842.9	857.4	863.8	867.0
32.5°	815.5	818.7	834.8	842.9	846.1
35°	788.1	792.9	809.0	820.3	826.7
37.5°	759.1	763.9	783.2	796.1	804.2
40°	728.4	734.9	755.8	771.9	781.6
42.5°	694.6	704.3	728.4	749.4	762.3
45°	662.4	673.6	699.4	728.4	742.9
47.5°	626.9	639.8	668.8	705.9	720.4
50°	589.8	602.7	638.2	680.1	696.2
52.5°	552.8	567.3	609.2	654.3	673.6
55°	512.5	528.6	580.2	628.5	649.5
57.5°	470.6	489.9	547.9	599.5	622.1
60°	427.1	451.2	515.7	570.5	594.7
62.5°	381.9	411.0	483.5	541.5	567.3
65°	338.4	370.7	449.6	510.9	538.3
67.5°	291.7	332.0	415.8	481.9	507.6
70°	245.0	291.7	380.3	448.0	473.8
72.5°	198.2	254.6	344.9	406.1	406.1
75°	153.1	216.0	307.8	306.2	296.5
77.5°	116.0	180.5	253.0	216.0	217.6
80°	83.8	145.0	159.5	159.5	161.2
82.5°	56.4	111.2	103.1	101.5	104.8
85°	33.8	51.6	53.2	48.3	50.0
87.5°	16.1	17.7	14.5	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)