

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: P263761

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

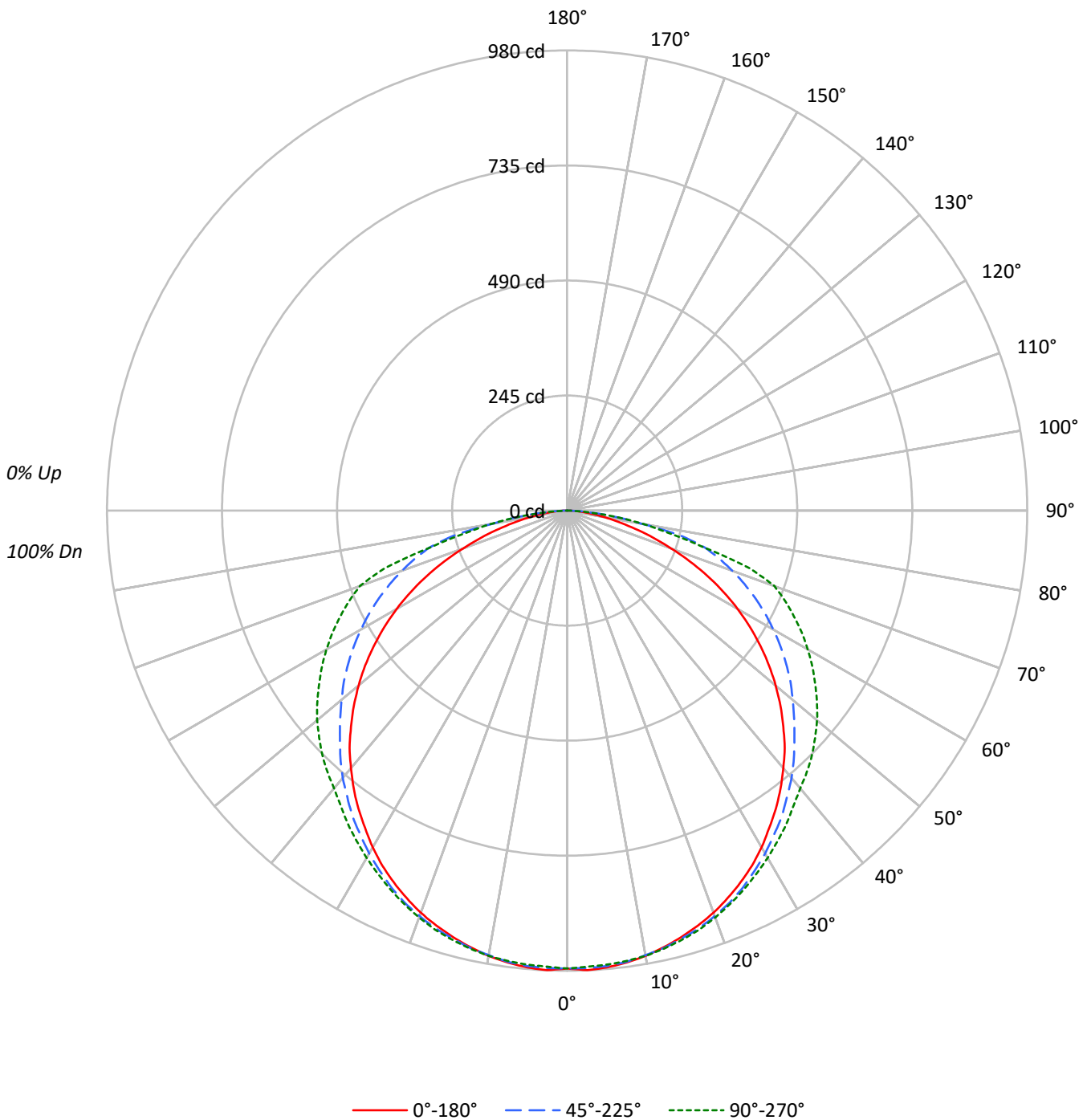
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1312	1312	1312
5°	1319	1315	1311
10°	1316	1314	1316
15°	1310	1314	1318
20°	1305	1316	1320
25°	1297	1315	1322
30°	1287	1310	1327
35°	1273	1308	1338
40°	1258	1306	1356
45°	1239	1302	1403
50°	1214	1312	1455
55°	1179	1335	1513
60°	1129	1365	1593
65°	1051	1408	1697
70°	929	1471	1847
75°	779	1574	1551
80°	622	1244	1291
85°	491	841	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.0
10°-20°	266.2	8.7
20°-30°	406.6	13.2
30°-40°	497.0	16.2
40°-50°	532.0	17.3
50°-60°	510.3	16.6
60°-70°	430.9	14.0
70°-80°	275.4	9.0
80°-90°	65.1	2.1
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°	765.2	24.9
0°-40°	1262.3	41.0
0°-60°	2304.6	74.9
0°-90°	3076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	977	971	974	972	971	93
15°	940	937	943	946	946	265
25°	874	872	886	889	890	403
35°	775	781	796	807	815	485
45°	651	662	684	716	737	502
55°	503	519	569	621	645	449
65°	330	362	442	504	533	326
75°	150	214	303	309	298	161
85°	32	53	54	53	50	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.1	975.1	975.1	975.1	975.1
2.5°	979.7	973.6	975.1	975.1	972.1
5°	976.6	970.6	973.6	972.1	970.6
7.5°	970.6	966.0	969.1	969.1	967.5
10°	963.0	958.5	961.5	963.0	963.0
12.5°	952.4	949.4	953.9	953.9	955.4
15°	940.3	937.3	943.3	946.3	946.3
17.5°	926.7	925.2	932.7	934.2	935.7
20°	911.5	910.0	919.1	919.1	922.1
22.5°	893.4	891.8	904.0	904.0	907.0
25°	873.7	872.2	885.8	888.8	890.3
27.5°	852.5	851.0	864.6	869.1	872.2
30°	828.2	828.2	843.4	849.4	854.0
32.5°	801.0	805.5	819.2	828.2	834.3
35°	775.2	781.3	796.4	807.0	814.6
37.5°	746.5	752.5	769.2	782.8	791.9
40°	716.2	723.8	743.5	758.6	772.2
42.5°	685.9	693.5	714.7	737.4	755.6
45°	651.1	661.7	684.4	716.2	737.4
47.5°	616.3	626.9	655.6	695.0	716.2
50°	579.9	592.0	626.9	672.3	695.0
52.5°	542.1	555.7	599.6	648.1	670.8
55°	502.7	519.4	569.3	620.8	645.0
57.5°	461.8	480.0	539.0	593.5	619.3
60°	419.4	442.1	507.2	564.8	592.0
62.5°	375.5	402.8	475.4	534.5	563.3
65°	330.1	361.9	442.1	504.2	533.0
67.5°	283.1	325.5	408.8	473.9	502.7
70°	236.2	286.2	374.0	440.6	469.4
72.5°	192.3	249.8	339.2	401.3	407.3
75°	149.9	213.5	302.8	308.9	298.3
77.5°	112.0	177.2	249.8	222.6	221.1
80°	80.3	142.3	160.5	165.0	166.6
82.5°	53.0	107.5	104.5	107.5	106.0
85°	31.8	53.0	54.5	53.0	50.0
87.5°	15.1	19.7	15.1	13.6	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)