

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: P263812

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263812
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-LD5-45-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2959.0 lumens
Efficiency: N/A
Efficacy: 89.9 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

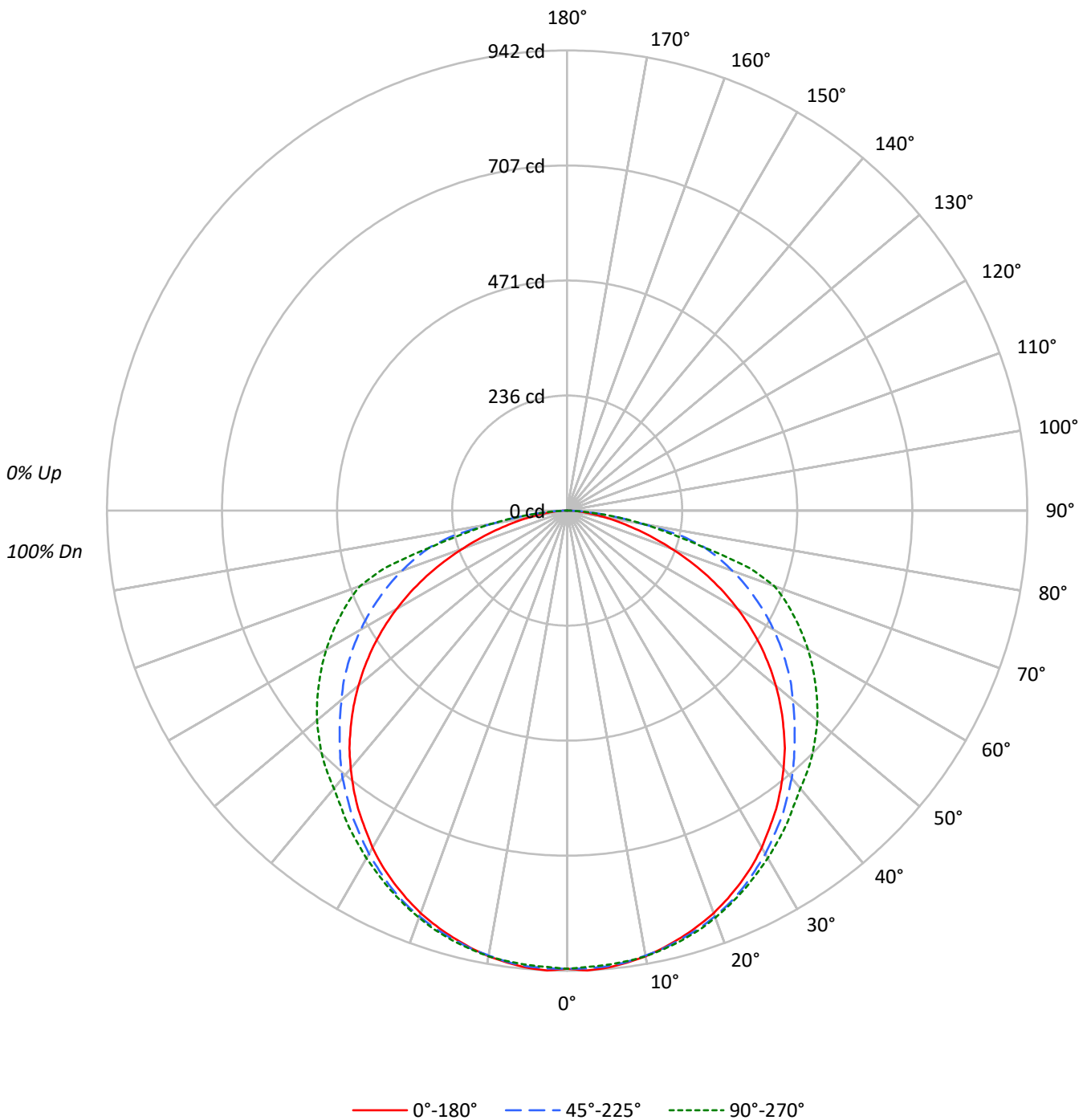
Input Watts (W): 32.922
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1262	1262	1262
5°	1269	1265	1261
10°	1266	1264	1266
15°	1260	1264	1268
20°	1256	1266	1270
25°	1248	1265	1272
30°	1238	1260	1276
35°	1225	1259	1287
40°	1210	1256	1305
45°	1192	1253	1350
50°	1168	1262	1400
55°	1134	1285	1456
60°	1086	1313	1533
65°	1011	1354	1632
70°	894	1415	1776
75°	750	1514	1491
80°	598	1196	1241
85°	472	809	743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.0
10°-20°	256.0	8.7
20°-30°	391.1	13.2
30°-40°	478.1	16.2
40°-50°	511.8	17.3
50°-60°	490.9	16.6
60°-70°	414.5	14.0
70°-80°	264.9	9.0
80°-90°	62.7	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°	736.1	24.9
0°-40°	1214.2	41.0
0°-60°	2216.9	74.9
0°-90°	2959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	940	934	937	935	934	89
15°	904	902	907	910	910	255
25°	840	839	852	855	856	387
35°	746	752	766	776	784	466
45°	626	636	658	689	709	483
55°	484	500	548	597	620	432
65°	318	348	425	485	513	313
75°	144	205	291	297	287	155
85°	31	51	52	51	48	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.0	938.0	938.0	938.0	938.0
2.5°	942.4	936.6	938.0	938.0	935.1
5°	939.5	933.7	936.6	935.1	933.7
7.5°	933.7	929.3	932.2	932.2	930.7
10°	926.4	922.0	924.9	926.4	926.4
12.5°	916.2	913.3	917.6	917.6	919.1
15°	904.5	901.6	907.4	910.4	910.4
17.5°	891.4	890.0	897.2	898.7	900.2
20°	876.9	875.4	884.1	884.1	887.0
22.5°	859.4	857.9	869.6	869.6	872.5
25°	840.4	839.0	852.1	855.0	856.5
27.5°	820.0	818.6	831.7	836.1	839.0
30°	796.7	796.7	811.3	817.1	821.5
32.5°	770.5	774.9	788.0	796.7	802.6
35°	745.8	751.6	766.2	776.3	783.6
37.5°	718.1	723.9	739.9	753.0	761.8
40°	689.0	696.2	715.2	729.7	742.8
42.5°	659.8	667.1	687.5	709.3	726.8
45°	626.3	636.5	658.4	689.0	709.3
47.5°	592.8	603.0	630.7	668.6	689.0
50°	557.9	569.5	603.0	646.7	668.6
52.5°	521.5	534.6	576.8	623.4	645.3
55°	483.6	499.6	547.7	597.2	620.5
57.5°	444.3	461.7	518.5	571.0	595.7
60°	403.5	425.3	487.9	543.3	569.5
62.5°	361.2	387.4	457.4	514.2	541.8
65°	317.5	348.1	425.3	485.0	512.7
67.5°	272.4	313.2	393.3	455.9	483.6
70°	227.2	275.3	359.8	423.9	451.5
72.5°	185.0	240.3	326.3	386.0	391.8
75°	144.2	205.4	291.3	297.1	286.9
77.5°	107.8	170.4	240.3	214.1	212.7
80°	77.2	136.9	154.4	158.8	160.2
82.5°	51.0	103.4	100.5	103.4	102.0
85°	30.6	51.0	52.4	51.0	48.1
87.5°	14.6	18.9	14.6	13.1	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)