

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: P263585

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263585
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-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2911.4 lumens
Efficiency: N/A
Efficacy: 88.9 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

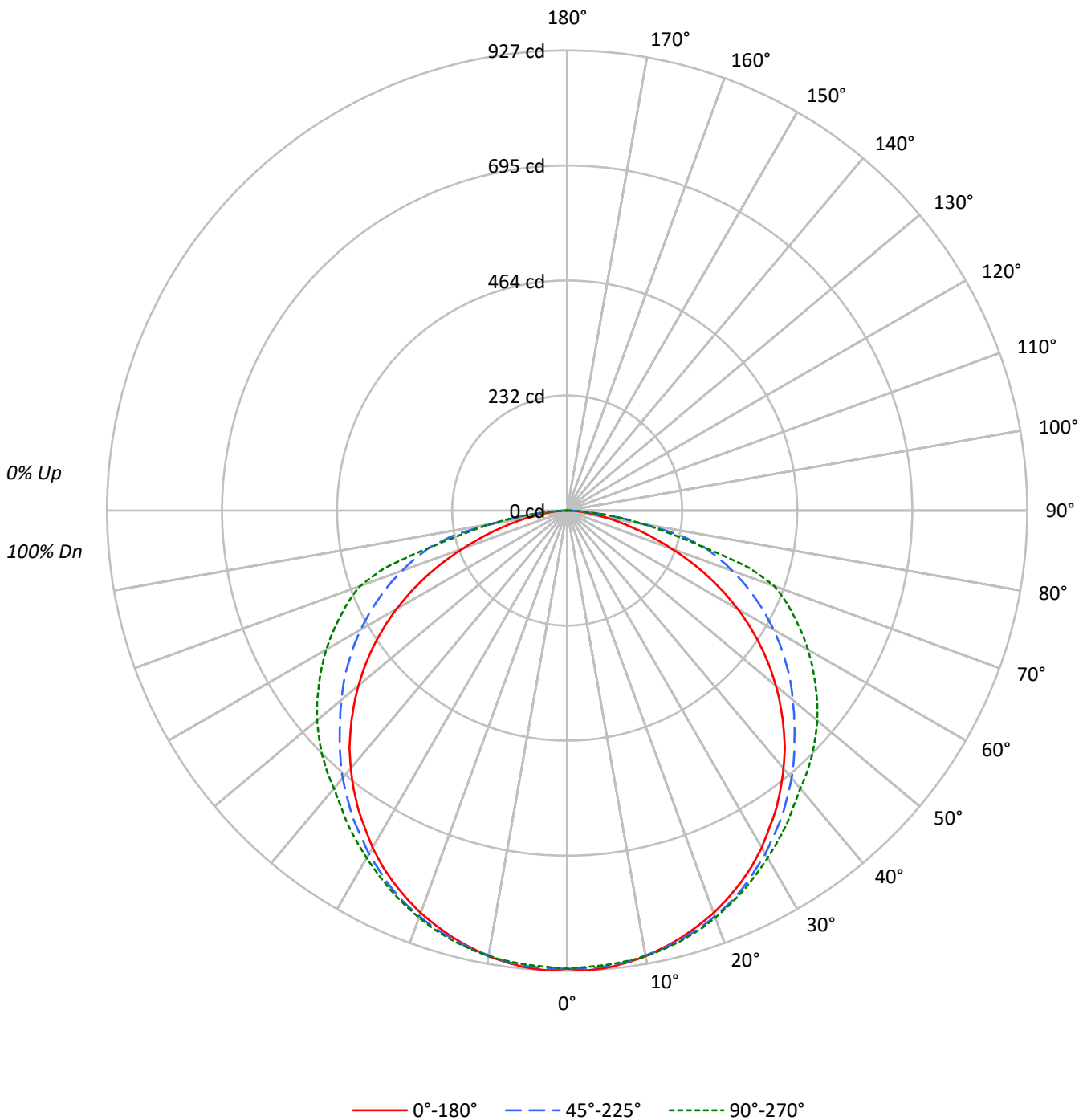
Input Watts (W): 32.754228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1242	1242	1242
5°	1249	1245	1241
10°	1245	1243	1245
15°	1240	1244	1248
20°	1235	1246	1250
25°	1228	1245	1251
30°	1218	1240	1256
35°	1205	1238	1266
40°	1191	1236	1284
45°	1173	1233	1328
50°	1149	1242	1377
55°	1116	1264	1432
60°	1068	1292	1508
65°	995	1332	1606
70°	880	1393	1748
75°	738	1490	1468
80°	589	1177	1221
85°	465	797	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.0
10°-20°	251.9	8.7
20°-30°	384.8	13.2
30°-40°	470.4	16.2
40°-50°	503.6	17.3
50°-60°	483.0	16.6
60°-70°	407.8	14.0
70°-80°	260.7	9.0
80°-90°	61.6	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°	724.3	24.9
0°-40°	1194.7	41.0
0°-60°	2181.3	74.9
0°-90°	2911.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	924	919	922	920	919	88
15°	890	887	893	896	896	251
25°	827	826	838	841	843	381
35°	734	740	754	764	771	459
45°	616	626	648	678	698	475
55°	476	492	539	588	610	425
65°	312	342	418	477	504	308
75°	142	202	287	292	282	153
85°	30	50	52	50	47	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.9	922.9	922.9	922.9	922.9
2.5°	927.2	921.5	922.9	922.9	920.1
5°	924.4	918.6	921.5	920.1	918.6
7.5°	918.6	914.3	917.2	917.2	915.8
10°	911.5	907.2	910.0	911.5	911.5
12.5°	901.4	898.6	902.9	902.9	904.3
15°	890.0	887.1	892.8	895.7	895.7
17.5°	877.1	875.6	882.8	884.2	885.7
20°	862.7	861.3	869.9	869.9	872.8
22.5°	845.5	844.1	855.6	855.6	858.4
25°	826.9	825.5	838.4	841.2	842.7
27.5°	806.8	805.4	818.3	822.6	825.5
30°	783.9	783.9	798.2	804.0	808.3
32.5°	758.1	762.4	775.3	783.9	789.6
35°	733.8	739.5	753.8	763.8	771.0
37.5°	706.5	712.3	728.0	740.9	749.5
40°	677.9	685.0	703.7	718.0	730.9
42.5°	649.2	656.4	676.4	697.9	715.1
45°	616.2	626.3	647.8	677.9	697.9
47.5°	583.3	593.3	620.5	657.8	677.9
50°	548.9	560.3	593.3	636.3	657.8
52.5°	513.1	526.0	567.5	613.4	634.9
55°	475.8	491.6	538.8	587.6	610.5
57.5°	437.1	454.3	510.2	561.8	586.1
60°	397.0	418.5	480.1	534.5	560.3
62.5°	355.4	381.2	450.0	505.9	533.1
65°	312.4	342.5	418.5	477.2	504.5
67.5°	268.0	308.1	386.9	448.6	475.8
70°	223.6	270.9	354.0	417.0	444.3
72.5°	182.0	236.5	321.0	379.8	385.5
75°	141.9	202.1	286.6	292.4	282.3
77.5°	106.1	167.7	236.5	210.7	209.2
80°	76.0	134.7	151.9	156.2	157.6
82.5°	50.2	101.8	98.9	101.8	100.3
85°	30.1	50.2	51.6	50.2	47.3
87.5°	14.3	18.6	14.3	12.9	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)