

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: P263634

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263634
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2891.5 lumens
Efficiency: N/A
Efficacy: 80.6 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

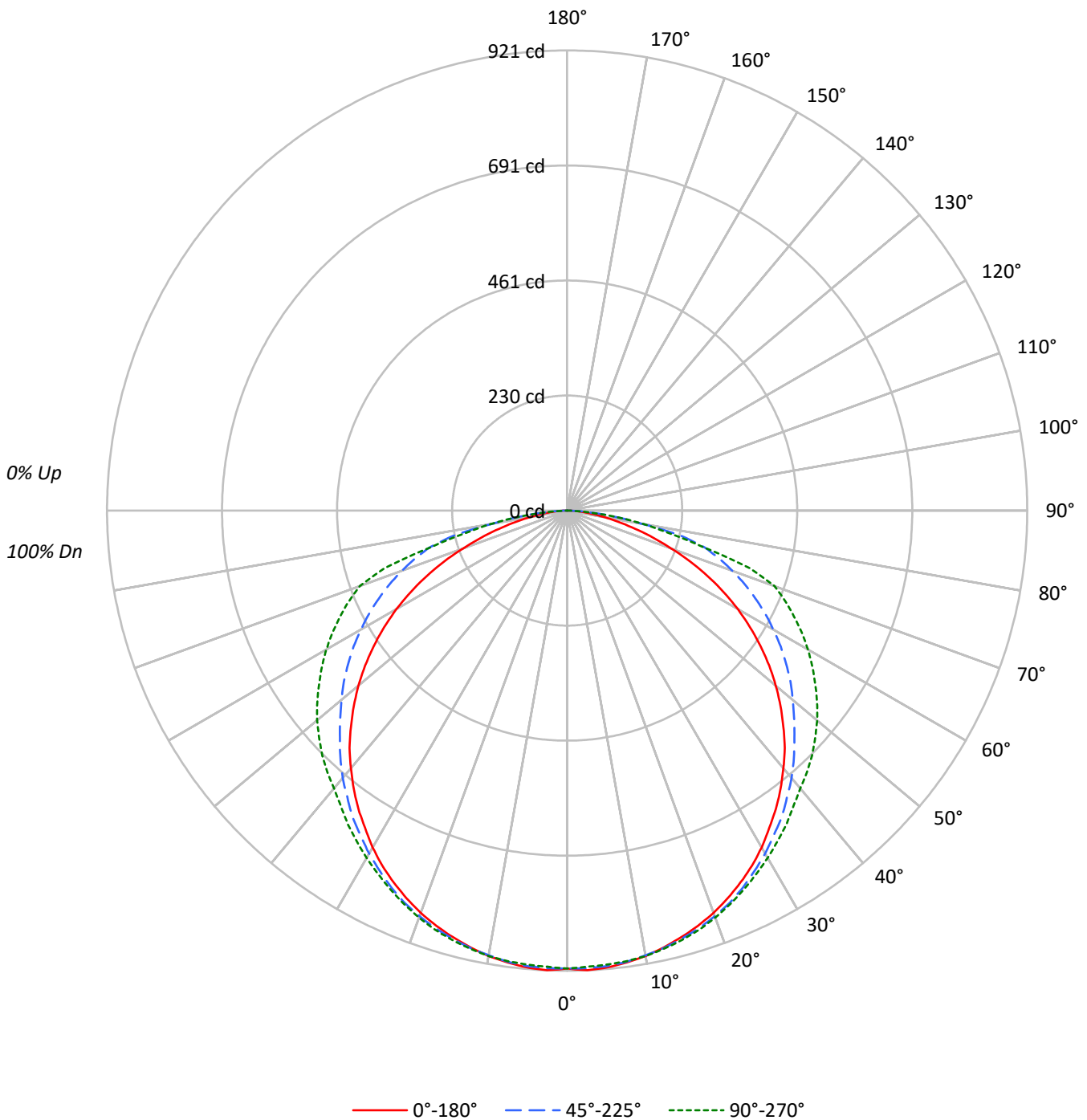
Input Watts (W): 35.877168
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263634

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P263634

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L93050-W2A1-U-4000K

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°	1233	1233	1233
5°	1240	1236	1232
10°	1237	1235	1237
15°	1231	1235	1239
20°	1227	1237	1241
25°	1219	1236	1242
30°	1210	1232	1247
35°	1197	1230	1258
40°	1182	1227	1275
45°	1165	1224	1319
50°	1141	1234	1367
55°	1108	1255	1422
60°	1061	1283	1498
65°	988	1323	1595
70°	873	1383	1736
75°	732	1480	1458
80°	584	1169	1213
85°	462	790	726



TEST NUMBER: P263634

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.0
10°-20°	250.2	8.7
20°-30°	382.2	13.2
30°-40°	467.2	16.2
40°-50°	500.1	17.3
50°-60°	479.7	16.6
60°-70°	405.0	14.0
70°-80°	258.9	9.0
80°-90°	61.2	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°	719.3	24.9
0°-40°	1186.5	41.0
0°-60°	2166.3	74.9
0°-90°	2891.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	918	912	915	914	912	87
15°	884	881	887	890	890	250
25°	821	820	833	836	837	379
35°	729	734	749	759	766	456
45°	612	622	643	673	693	472
55°	472	488	535	584	606	422
65°	310	340	416	474	501	306
75°	141	201	285	290	280	152
85°	30	50	51	50	47	36
90°	0	0	0	0	0	



TEST NUMBER: P263634

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.6	916.6	916.6	916.6	916.6
2.5°	920.9	915.2	916.6	916.6	913.8
5°	918.0	912.3	915.2	913.8	912.3
7.5°	912.3	908.1	910.9	910.9	909.5
10°	905.2	901.0	903.8	905.2	905.2
12.5°	895.3	892.4	896.7	896.7	898.1
15°	883.9	881.0	886.7	889.6	889.6
17.5°	871.1	869.6	876.8	878.2	879.6
20°	856.8	855.4	864.0	864.0	866.8
22.5°	839.8	838.3	849.7	849.7	852.6
25°	821.3	819.8	832.6	835.5	836.9
27.5°	801.3	799.9	812.7	817.0	819.8
30°	778.6	778.6	792.8	798.5	802.8
32.5°	752.9	757.2	770.0	778.6	784.2
35°	728.7	734.4	748.7	758.6	765.7
37.5°	701.7	707.4	723.0	735.9	744.4
40°	673.2	680.3	698.8	713.1	725.9
42.5°	644.8	651.9	671.8	693.2	710.2
45°	612.0	622.0	643.3	673.2	693.2
47.5°	579.3	589.3	616.3	653.3	673.2
50°	545.1	556.5	589.3	632.0	653.3
52.5°	509.5	522.4	563.6	609.2	630.5
55°	472.5	488.2	535.2	583.6	606.3
57.5°	434.1	451.2	506.7	557.9	582.1
60°	394.3	415.6	476.8	530.9	556.5
62.5°	353.0	378.6	446.9	502.4	529.5
65°	310.3	340.2	415.6	474.0	501.0
67.5°	266.2	306.0	384.3	445.5	472.5
70°	222.0	269.0	351.6	414.2	441.2
72.5°	180.8	234.8	318.8	377.2	382.9
75°	140.9	200.7	284.7	290.4	280.4
77.5°	105.3	166.5	234.8	209.2	207.8
80°	75.4	133.8	150.9	155.1	156.6
82.5°	49.8	101.1	98.2	101.1	99.6
85°	29.9	49.8	51.2	49.8	47.0
87.5°	14.2	18.5	14.2	12.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)