

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: P263558

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263558
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-L83050-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: 3150.0 lumens
Efficiency: N/A
Efficacy: 90.1 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

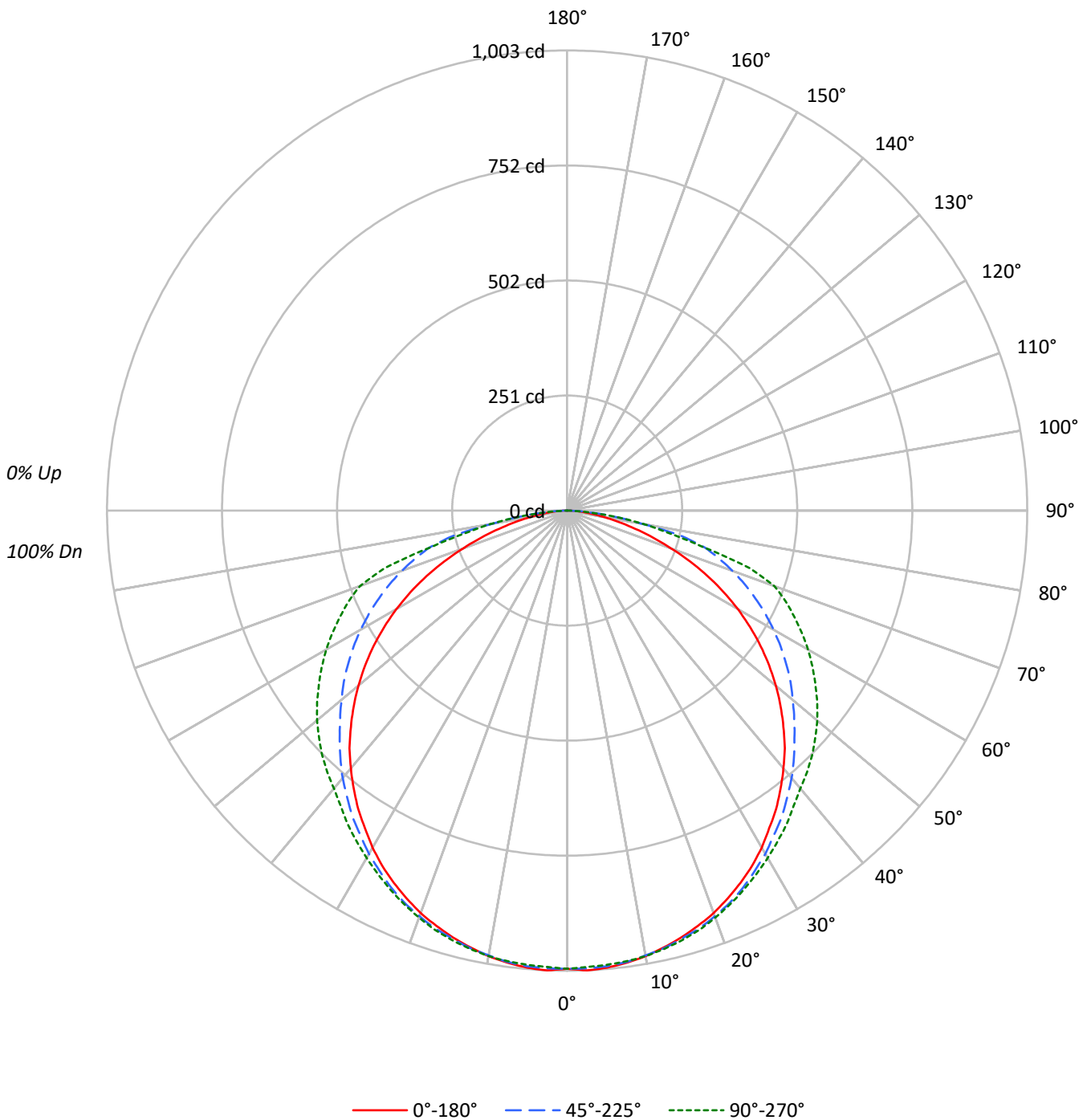
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263558

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263558

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L83050-W2A1-U-3500K

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°	1344	1344	1344
5°	1351	1347	1342
10°	1347	1345	1347
15°	1341	1346	1350
20°	1337	1348	1352
25°	1328	1347	1353
30°	1318	1342	1359
35°	1304	1340	1370
40°	1288	1337	1389
45°	1269	1334	1437
50°	1243	1344	1490
55°	1208	1368	1549
60°	1156	1398	1632
65°	1076	1442	1738
70°	952	1507	1891
75°	798	1612	1588
80°	637	1274	1322
85°	503	861	790



TEST NUMBER: P263558

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	3.0
10°-20°	272.6	8.7
20°-30°	416.3	13.2
30°-40°	509.0	16.2
40°-50°	544.8	17.3
50°-60°	522.6	16.6
60°-70°	441.3	14.0
70°-80°	282.0	9.0
80°-90°	66.7	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°	783.6	24.9
0°-40°	1292.6	41.0
0°-60°	2360.1	74.9
0°-90°	3150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	1000	994	997	996	994	95
15°	963	960	966	969	969	272
25°	895	893	907	910	912	412
35°	794	800	816	826	834	496
45°	667	678	701	733	755	514
55°	515	532	583	636	660	459
65°	338	371	453	516	546	333
75°	154	219	310	316	306	165
85°	33	54	56	54	51	39
90°	0	0	0	0	0	



TEST NUMBER: P263558

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.6	998.6	998.6	998.6	998.6
2.5°	1003.2	997.0	998.6	998.6	995.5
5°	1000.1	993.9	997.0	995.5	993.9
7.5°	993.9	989.3	992.4	992.4	990.8
10°	986.2	981.5	984.6	986.2	986.2
12.5°	975.3	972.2	976.9	976.9	978.4
15°	962.9	959.8	966.0	969.1	969.1
17.5°	949.0	947.4	955.2	956.7	958.3
20°	933.5	931.9	941.2	941.2	944.3
22.5°	914.8	913.3	925.7	925.7	928.8
25°	894.7	893.1	907.1	910.2	911.7
27.5°	873.0	871.4	885.4	890.0	893.1
30°	848.2	848.2	863.7	869.9	874.5
32.5°	820.3	824.9	838.9	848.2	854.4
35°	793.9	800.1	815.6	826.5	834.2
37.5°	764.4	770.6	787.7	801.7	811.0
40°	733.4	741.2	761.3	776.8	790.8
42.5°	702.4	710.2	731.9	755.1	773.7
45°	666.8	677.6	700.9	733.4	755.1
47.5°	631.1	641.9	671.4	711.7	733.4
50°	593.9	606.3	641.9	688.5	711.7
52.5°	555.1	569.1	614.0	663.7	686.9
55°	514.8	531.9	583.0	635.7	660.5
57.5°	472.9	491.5	552.0	607.8	634.2
60°	429.5	452.8	519.4	578.4	606.3
62.5°	384.5	412.5	486.9	547.4	576.8
65°	338.0	370.6	452.8	516.3	545.8
67.5°	290.0	333.4	418.7	485.3	514.8
70°	241.9	293.1	383.0	451.2	480.7
72.5°	196.9	255.8	347.3	410.9	417.1
75°	153.5	218.6	310.1	316.3	305.5
77.5°	114.7	181.4	255.8	227.9	226.4
80°	82.2	145.8	164.4	169.0	170.6
82.5°	54.3	110.1	107.0	110.1	108.5
85°	32.6	54.3	55.8	54.3	51.2
87.5°	15.5	20.2	15.5	14.0	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)