

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: P263674

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263674
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-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3210.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

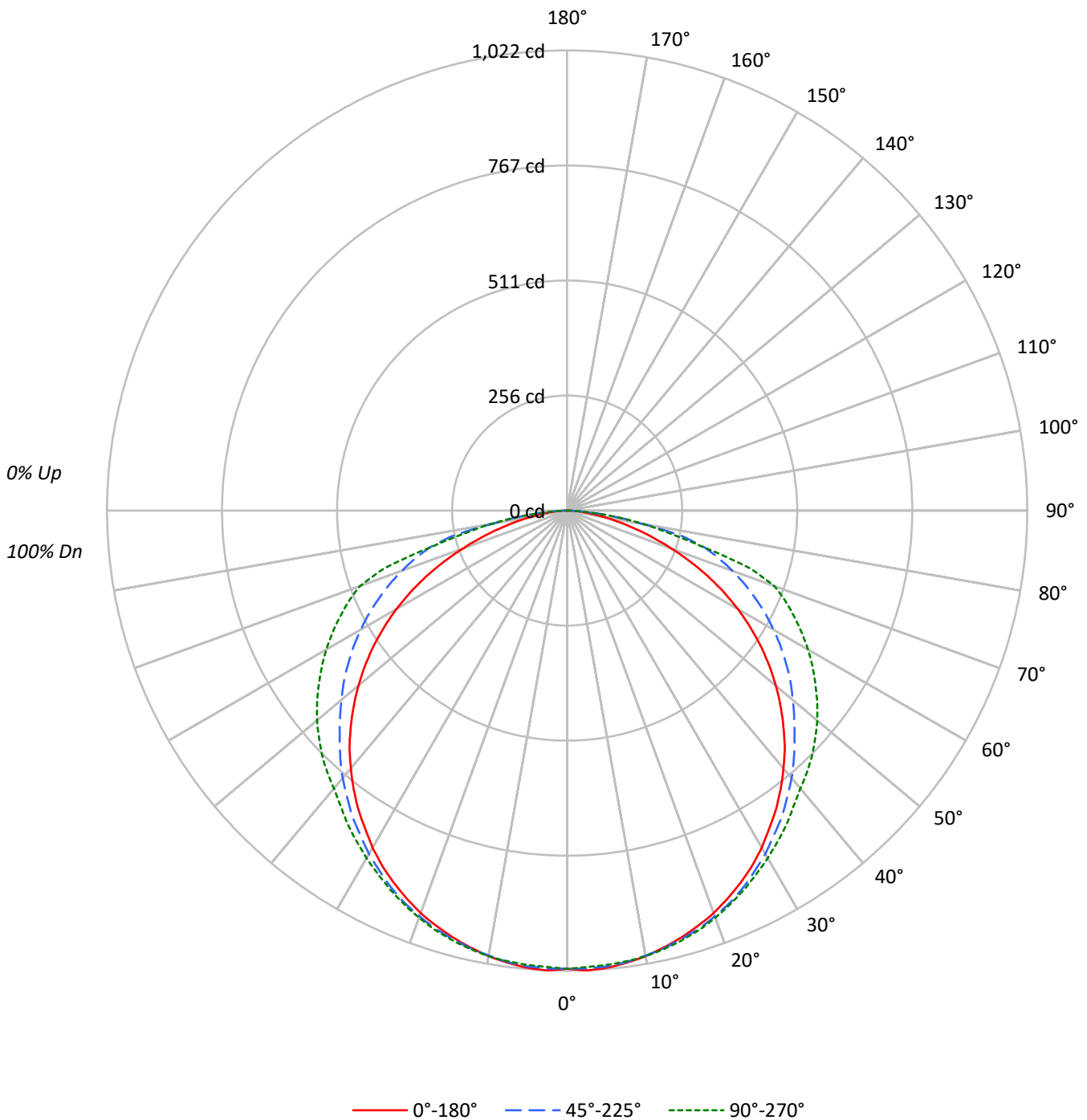
Input Watts (W): 32.178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263674

CATALOG NUMBER: 24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P263674

CATALOG NUMBER: 24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-5000K

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°	1369	1369	1369
5°	1377	1372	1368
10°	1373	1371	1373
15°	1367	1371	1376
20°	1362	1373	1378
25°	1353	1372	1379
30°	1343	1367	1385
35°	1329	1365	1396
40°	1313	1363	1415
45°	1293	1359	1464
50°	1267	1369	1518
55°	1231	1394	1579
60°	1178	1424	1662
65°	1097	1469	1771
70°	970	1535	1927
75°	813	1643	1618
80°	649	1298	1347
85°	513	878	804



TEST NUMBER: P263674

CATALOG NUMBER: 24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.0
10°-20°	277.8	8.7
20°-30°	424.3	13.2
30°-40°	518.7	16.2
40°-50°	555.2	17.3
50°-60°	532.5	16.6
60°-70°	449.7	14.0
70°-80°	287.4	9.0
80°-90°	68.0	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°	798.5	24.9
0°-40°	1317.2	41.0
0°-60°	2405.0	74.9
0°-90°	3210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1019	1013	1016	1014	1013	97
15°	981	978	984	988	988	277
25°	912	910	924	928	929	420
35°	809	815	831	842	850	506
45°	680	690	714	747	770	524
55°	525	542	594	648	673	468
65°	344	378	461	526	556	340
75°	156	223	316	322	311	168
85°	33	55	57	55	52	40
90°	0	0	0	0	0	



TEST NUMBER: P263674

CATALOG NUMBER: 24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.6	1017.6	1017.6	1017.6	1017.6
2.5°	1022.3	1016.0	1017.6	1017.6	1014.4
5°	1019.2	1012.9	1016.0	1014.4	1012.9
7.5°	1012.9	1008.1	1011.3	1011.3	1009.7
10°	1005.0	1000.2	1003.4	1005.0	1005.0
12.5°	993.9	990.7	995.5	995.5	997.1
15°	981.3	978.1	984.4	987.6	987.6
17.5°	967.0	965.5	973.4	974.9	976.5
20°	951.2	949.7	959.1	959.1	962.3
22.5°	932.3	930.7	943.3	943.3	946.5
25°	911.7	910.1	924.4	927.5	929.1
27.5°	889.6	888.0	902.2	907.0	910.1
30°	864.3	864.3	880.1	886.4	891.2
32.5°	835.9	840.6	854.8	864.3	870.6
35°	809.0	815.3	831.1	842.2	850.1
37.5°	779.0	785.3	802.7	816.9	826.4
40°	747.4	755.3	775.8	791.6	805.9
42.5°	715.8	723.7	745.8	769.5	788.5
45°	679.5	690.5	714.2	747.4	769.5
47.5°	643.1	654.2	684.2	725.3	747.4
50°	605.2	617.8	654.2	701.6	725.3
52.5°	565.7	579.9	625.7	676.3	700.0
55°	524.6	542.0	594.1	647.8	673.1
57.5°	481.9	500.9	562.5	619.4	646.3
60°	437.7	461.4	529.3	589.4	617.8
62.5°	391.9	420.3	496.2	557.8	587.8
65°	344.5	377.6	461.4	526.2	556.2
67.5°	295.5	339.7	426.6	494.6	524.6
70°	246.5	298.6	390.3	459.8	489.8
72.5°	200.7	260.7	353.9	418.7	425.1
75°	156.4	222.8	316.0	322.3	311.3
77.5°	116.9	184.9	260.7	232.3	230.7
80°	83.7	148.5	167.5	172.2	173.8
82.5°	55.3	112.2	109.0	112.2	110.6
85°	33.2	55.3	56.9	55.3	52.1
87.5°	15.8	20.5	15.8	14.2	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)