

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: P260704

Luminaire Tested: **24CZ-LD5-30-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2998.0 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

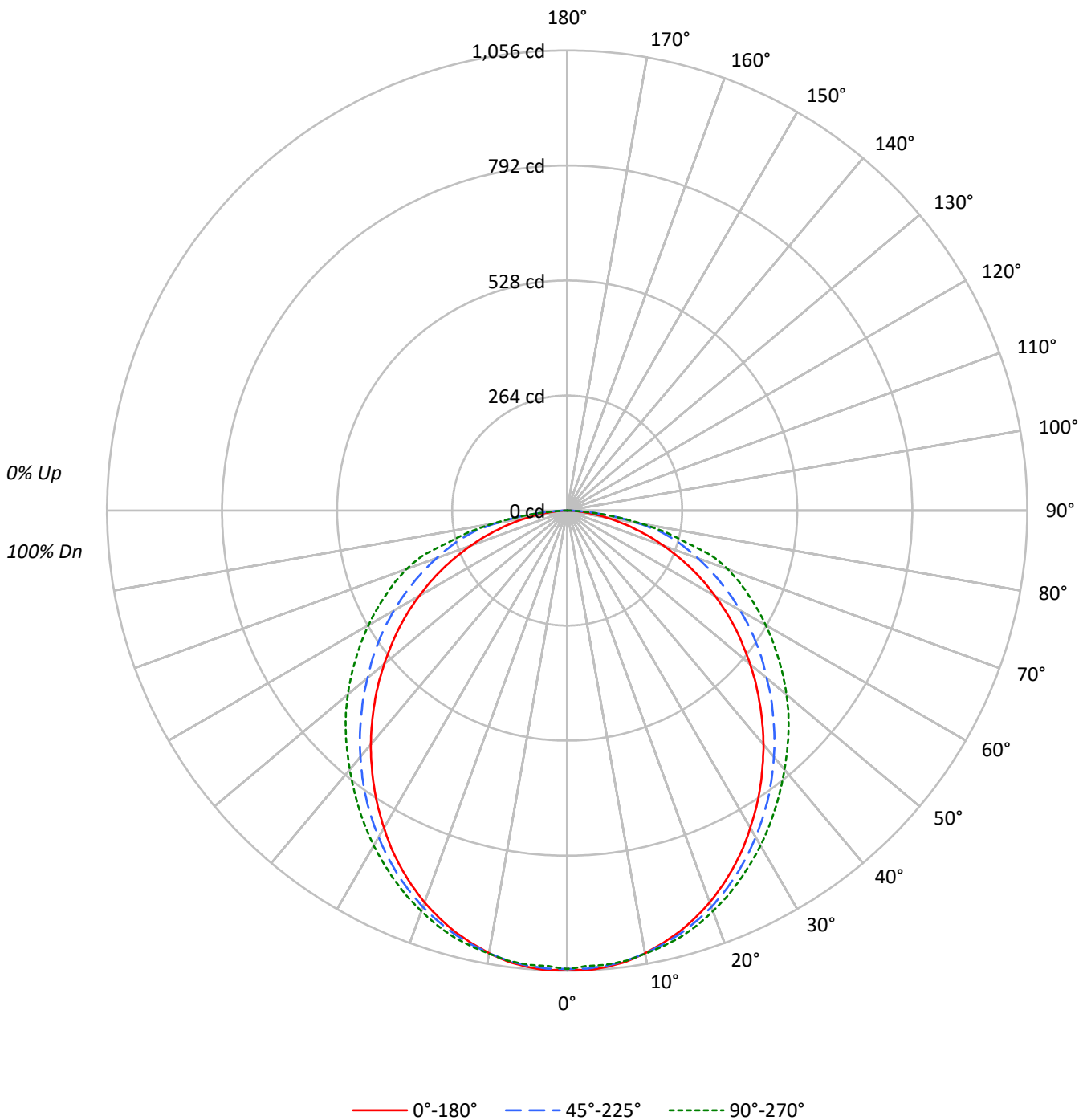
Input Watts (W): 19.716
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260704

CATALOG NUMBER: 24CZ-LD5-30-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P260704

CATALOG NUMBER: 24CZ-LD5-30-UNV-L82765-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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1416	1416	1416
5°	1420	1415	1413
10°	1409	1409	1411
15°	1393	1400	1410
20°	1370	1386	1401
25°	1341	1367	1390
30°	1306	1344	1379
35°	1270	1322	1369
40°	1231	1296	1363
45°	1189	1271	1367
50°	1147	1250	1375
55°	1105	1243	1389
60°	1055	1235	1417
65°	1000	1235	1464
70°	925	1256	1543
75°	827	1313	1468
80°	692	1257	1344
85°	523	966	919



TEST NUMBER: P260704

CATALOG NUMBER: 24CZ-LD5-30-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.3
10°-20°	283.0	9.4
20°-30°	423.0	14.1
30°-40°	501.9	16.7
40°-50°	516.5	17.2
50°-60°	473.8	15.8
60°-70°	383.1	12.8
70°-80°	248.7	8.3
80°-90°	68.6	2.3
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°	805.4	26.9
0°-40°	1307.3	43.6
0°-60°	2297.7	76.6
0°-90°	2998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1051	1044	1048	1047	1046	100
15°	1000	996	1005	1009	1012	282
25°	903	904	921	929	936	416
35°	773	779	805	822	834	483
45°	625	635	668	700	718	482
55°	471	486	530	573	592	421
65°	314	333	388	439	460	310
75°	159	189	252	282	282	169
85°	34	58	63	61	60	41
90°	0	0	0	0	0	



TEST NUMBER: P260704

CATALOG NUMBER: 24CZ-LD5-30-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.1	1052.1	1052.1	1052.1	1052.1
2.5°	1056.2	1048.0	1052.1	1051.1	1046.0
5°	1051.1	1043.9	1048.0	1047.0	1046.0
7.5°	1043.9	1036.7	1041.9	1040.9	1041.9
10°	1031.6	1025.5	1031.6	1032.6	1032.6
12.5°	1016.2	1011.1	1019.3	1021.3	1023.4
15°	999.8	995.7	1004.9	1009.0	1012.1
17.5°	979.3	976.2	987.5	992.6	996.7
20°	956.7	955.7	968.0	973.1	978.2
22.5°	931.0	931.0	945.4	951.5	958.7
25°	903.3	904.3	920.8	929.0	936.1
27.5°	873.5	874.6	894.1	904.3	912.5
30°	840.7	844.8	865.3	878.7	887.9
32.5°	807.8	813.0	835.6	851.0	861.2
35°	772.9	779.1	804.8	822.2	833.5
37.5°	737.0	744.2	771.9	791.4	804.8
40°	701.1	709.3	738.0	760.6	776.0
42.5°	663.1	672.3	704.2	730.9	747.3
45°	625.1	635.4	668.2	700.1	718.5
47.5°	587.1	599.5	634.4	669.3	688.8
50°	548.1	560.5	597.4	637.4	656.9
52.5°	509.1	523.5	564.6	605.6	625.1
55°	471.2	485.5	529.7	572.8	592.3
57.5°	432.1	446.5	494.8	539.9	559.4
60°	392.1	408.5	458.8	505.0	526.6
62.5°	353.1	370.6	423.9	473.2	493.7
65°	314.1	332.6	388.0	439.3	459.9
67.5°	274.1	295.6	353.1	405.5	427.0
70°	235.1	258.7	319.2	371.6	392.1
72.5°	197.1	222.7	285.4	338.7	351.1
75°	159.1	188.9	252.5	282.3	282.3
77.5°	123.2	156.0	215.6	226.9	233.0
80°	89.3	125.2	162.2	175.5	173.5
82.5°	59.5	95.5	116.0	116.0	112.9
85°	33.9	57.5	62.6	60.6	59.5
87.5°	14.4	21.6	19.5	15.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)