

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: P260797

Luminaire Tested: **24CZ-LD5-30SE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260797
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-LD5-30SE-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3123.0 lumens
Efficiency: N/A
Efficacy: 140.5 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

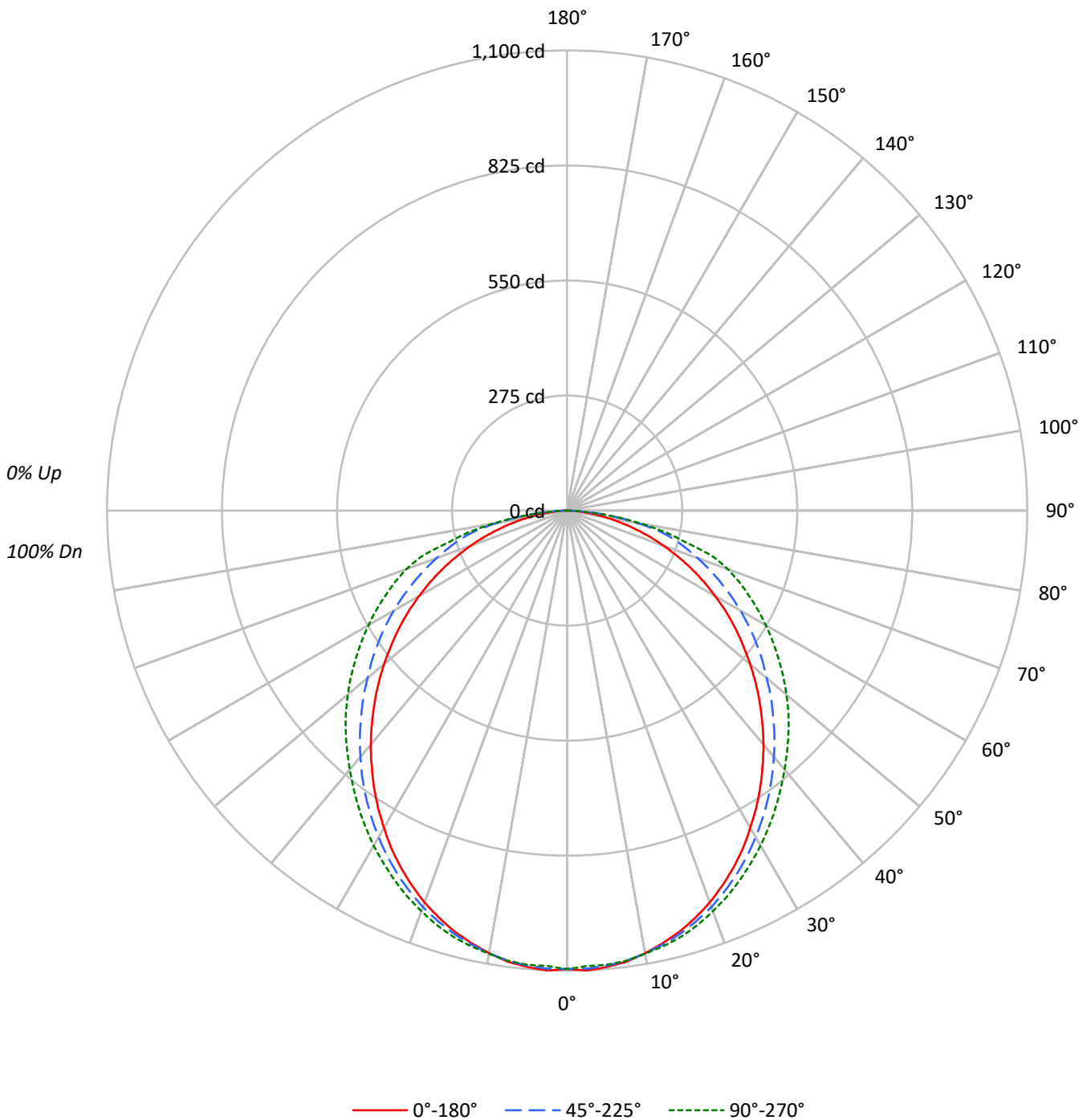
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260797

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P260797

CATALOG NUMBER: 24CZ-LD5-30SE-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	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°	1475	1475	1475
5°	1479	1474	1472
10°	1468	1468	1470
15°	1451	1458	1469
20°	1427	1444	1459
25°	1397	1424	1448
30°	1361	1400	1437
35°	1323	1377	1426
40°	1283	1350	1420
45°	1239	1325	1424
50°	1195	1303	1432
55°	1151	1294	1447
60°	1099	1286	1476
65°	1042	1287	1525
70°	963	1308	1607
75°	861	1367	1529
80°	721	1309	1400
85°	545	1007	957



TEST NUMBER: P260797

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.3
10°-20°	294.8	9.4
20°-30°	440.7	14.1
30°-40°	522.8	16.7
40°-50°	538.1	17.2
50°-60°	493.6	15.8
60°-70°	399.1	12.8
70°-80°	259.0	8.3
80°-90°	71.4	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°	839.0	26.9
0°-40°	1361.8	43.6
0°-60°	2393.4	76.6
0°-90°	3123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1095	1088	1092	1091	1090	104
15°	1042	1037	1047	1051	1054	293
25°	941	942	959	968	975	433
35°	805	812	838	856	868	504
45°	651	662	696	729	748	503
55°	491	506	552	597	617	438
65°	327	346	404	458	479	323
75°	166	197	263	294	294	176
85°	35	60	65	63	62	43
90°	0	0	0	0	0	



TEST NUMBER: P260797

CATALOG NUMBER: 24CZ-LD5-30SE-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.0	1096.0	1096.0	1096.0	1096.0
2.5°	1100.3	1091.7	1096.0	1094.9	1089.6
5°	1094.9	1087.5	1091.7	1090.7	1089.6
7.5°	1087.5	1080.0	1085.3	1084.2	1085.3
10°	1074.6	1068.2	1074.6	1075.7	1075.7
12.5°	1058.6	1053.2	1061.8	1063.9	1066.1
15°	1041.5	1037.2	1046.8	1051.1	1054.3
17.5°	1020.1	1016.9	1028.6	1034.0	1038.3
20°	996.6	995.5	1008.3	1013.7	1019.0
22.5°	969.8	969.8	984.8	991.2	998.7
25°	941.0	942.0	959.1	967.7	975.2
27.5°	910.0	911.0	931.3	942.0	950.6
30°	875.7	880.0	901.4	915.3	924.9
32.5°	841.5	846.9	870.4	886.4	897.1
35°	805.2	811.6	838.3	856.5	868.3
37.5°	767.7	775.2	804.1	824.4	838.3
40°	730.3	738.9	768.8	792.3	808.4
42.5°	690.8	700.4	733.5	761.3	778.4
45°	651.2	661.9	696.1	729.2	748.5
47.5°	611.6	624.5	660.8	697.2	717.5
50°	571.0	583.8	622.3	664.0	684.3
52.5°	530.4	545.3	588.1	630.9	651.2
55°	490.8	505.8	551.7	596.7	617.0
57.5°	450.2	465.1	515.4	562.4	582.8
60°	408.5	425.6	478.0	526.1	548.5
62.5°	367.8	386.0	441.6	492.9	514.3
65°	327.2	346.4	404.2	457.7	479.0
67.5°	285.5	308.0	367.8	422.4	444.8
70°	244.9	269.5	332.5	387.1	408.5
72.5°	205.3	232.0	297.3	352.9	365.7
75°	165.7	196.7	263.0	294.1	294.1
77.5°	128.3	162.5	224.5	236.3	242.7
80°	93.0	130.5	168.9	182.8	180.7
82.5°	62.0	99.4	120.8	120.8	117.6
85°	35.3	59.9	65.2	63.1	62.0
87.5°	15.0	22.5	20.3	16.0	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)