

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: P260708

Luminaire Tested: **24CZ-LD5-30-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260708
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3192.0 lumens
Efficiency: N/A
Efficacy: 158.2 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

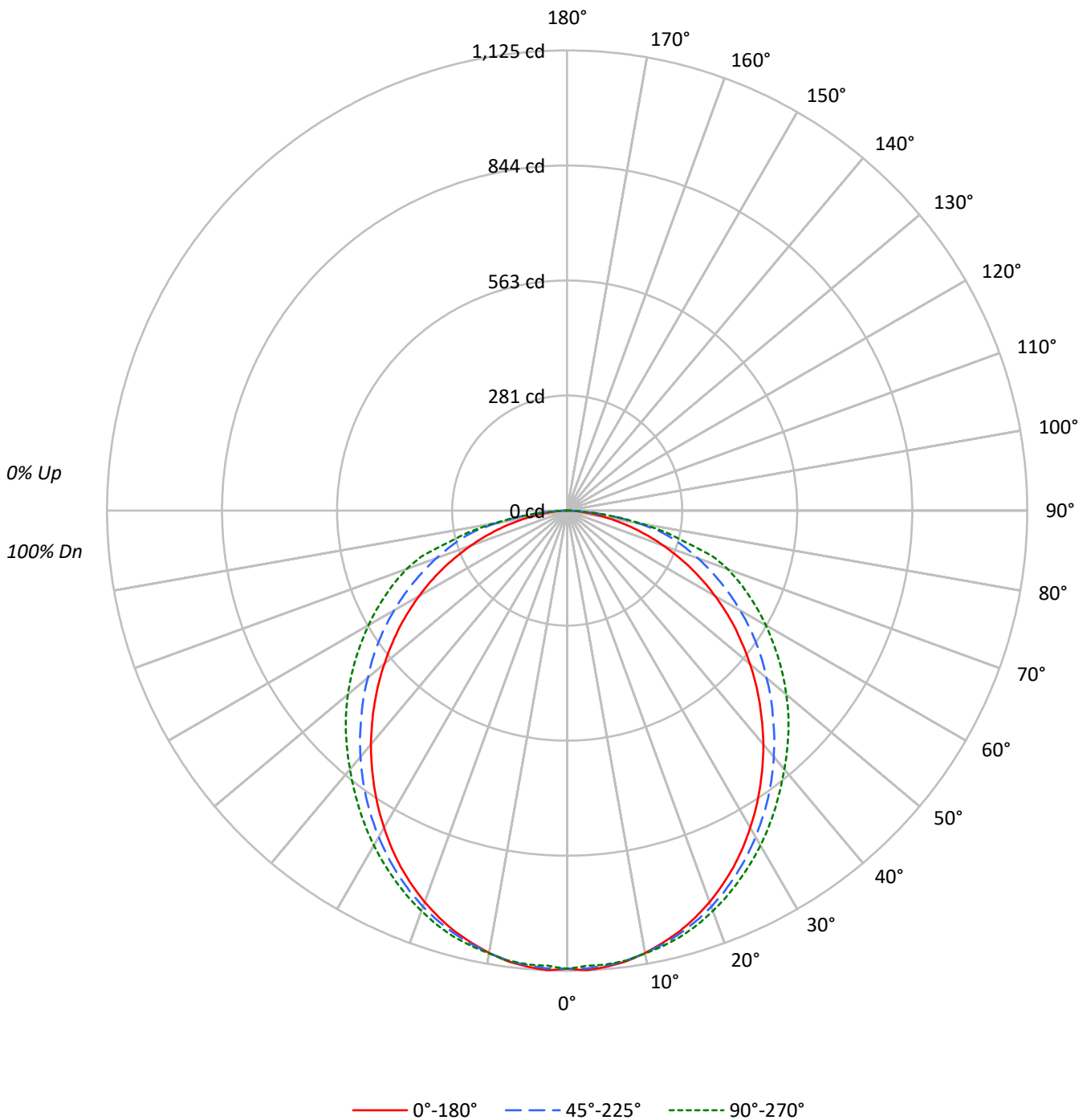
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	1507	1507	1507
5°	1511	1507	1504
10°	1501	1501	1502
15°	1483	1490	1501
20°	1458	1476	1491
25°	1428	1455	1480
30°	1391	1431	1469
35°	1352	1407	1458
40°	1311	1380	1451
45°	1267	1354	1456
50°	1222	1331	1464
55°	1177	1323	1479
60°	1123	1315	1509
65°	1065	1315	1559
70°	985	1337	1642
75°	881	1398	1562
80°	737	1338	1431
85°	557	1030	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.3
10°-20°	301.3	9.4
20°-30°	450.4	14.1
30°-40°	534.3	16.7
40°-50°	550.0	17.2
50°-60°	504.5	15.8
60°-70°	407.9	12.8
70°-80°	264.7	8.3
80°-90°	73.0	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°	857.5	26.9
0°-40°	1391.9	43.6
0°-60°	2446.3	76.6
0°-90°	3192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1119	1112	1116	1115	1114	106
15°	1064	1060	1070	1074	1078	300
25°	962	963	980	989	997	443
35°	823	830	857	875	887	515
45°	666	676	712	745	765	514
55°	502	517	564	610	631	448
65°	334	354	413	468	490	331
75°	169	201	269	300	300	180
85°	36	61	67	64	63	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.2	1120.2	1120.2	1120.2	1120.2
2.5°	1124.6	1115.9	1120.2	1119.1	1113.7
5°	1119.1	1111.5	1115.9	1114.8	1113.7
7.5°	1111.5	1103.8	1109.3	1108.2	1109.3
10°	1098.4	1091.8	1098.4	1099.5	1099.5
12.5°	1082.0	1076.5	1085.3	1087.4	1089.6
15°	1064.5	1060.1	1070.0	1074.3	1077.6
17.5°	1042.6	1039.4	1051.4	1056.8	1061.2
20°	1018.6	1017.5	1030.6	1036.1	1041.5
22.5°	991.3	991.3	1006.6	1013.1	1020.8
25°	961.8	962.8	980.3	989.1	996.7
27.5°	930.1	931.2	951.9	962.8	971.6
30°	895.1	899.5	921.3	935.5	945.4
32.5°	860.1	865.6	889.6	906.0	916.9
35°	823.0	829.5	856.8	875.4	887.4
37.5°	784.7	792.4	821.9	842.6	856.8
40°	746.5	755.2	785.8	809.8	826.2
42.5°	706.0	715.9	749.7	778.1	795.6
45°	665.6	676.5	711.5	745.4	765.0
47.5°	625.1	638.3	675.4	712.6	733.3
50°	583.6	596.7	636.1	678.7	699.5
52.5°	542.1	557.4	601.1	644.8	665.6
55°	501.6	516.9	563.9	609.8	630.6
57.5°	460.1	475.4	526.8	574.9	595.6
60°	417.5	435.0	488.5	537.7	560.7
62.5°	376.0	394.5	451.4	503.8	525.7
65°	334.4	354.1	413.1	467.8	489.6
67.5°	291.8	314.8	376.0	431.7	454.6
70°	250.3	275.4	339.9	395.6	417.5
72.5°	209.8	237.2	303.8	360.7	373.8
75°	169.4	201.1	268.9	300.5	300.5
77.5°	131.1	166.1	229.5	241.5	248.1
80°	95.1	133.3	172.7	186.9	184.7
82.5°	63.4	101.6	123.5	123.5	120.2
85°	36.1	61.2	66.7	64.5	63.4
87.5°	15.3	23.0	20.8	16.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)