

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: P260800

Luminaire Tested: **24CZ-LD5-30SE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260800
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3170.0 lumens
Efficiency: N/A
Efficacy: 139.7 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

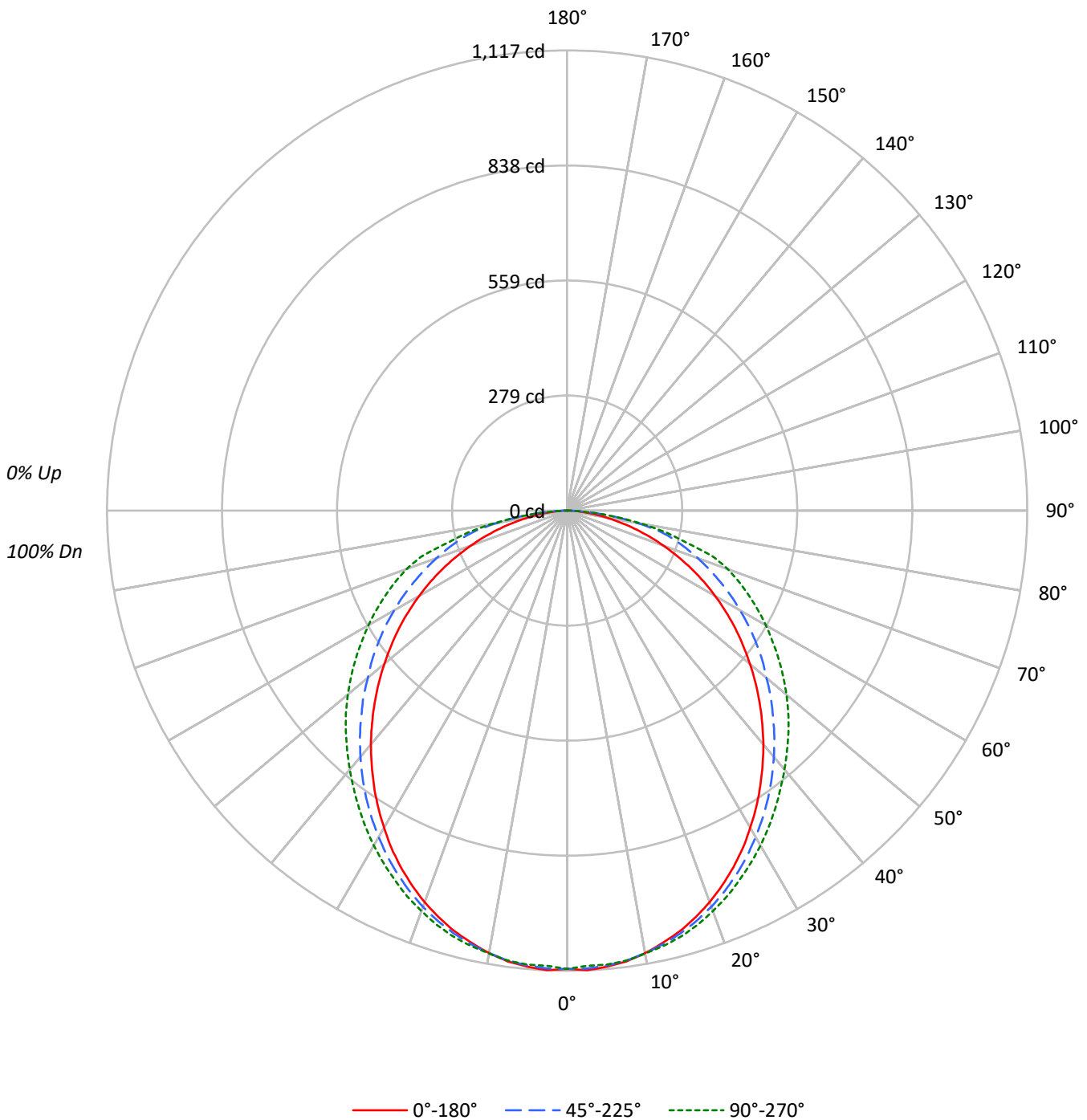
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1497	1497	1497
5°	1501	1497	1494
10°	1490	1490	1492
15°	1473	1480	1491
20°	1448	1465	1481
25°	1418	1445	1470
30°	1381	1422	1459
35°	1342	1398	1448
40°	1302	1371	1441
45°	1258	1345	1446
50°	1213	1322	1454
55°	1169	1314	1469
60°	1116	1306	1498
65°	1057	1306	1548
70°	978	1328	1631
75°	874	1388	1552
80°	731	1329	1421
85°	553	1022	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.3
10°-20°	299.2	9.4
20°-30°	447.3	14.1
30°-40°	530.6	16.7
40°-50°	546.2	17.2
50°-60°	501.0	15.8
60°-70°	405.1	12.8
70°-80°	262.9	8.3
80°-90°	72.5	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°	851.6	26.9
0°-40°	1382.3	43.6
0°-60°	2429.5	76.6
0°-90°	3170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1111	1104	1108	1107	1106	105
15°	1057	1053	1063	1067	1070	298
25°	955	956	974	982	990	440
35°	817	824	851	869	881	511
45°	661	672	707	740	760	510
55°	498	513	560	606	626	445
65°	332	352	410	464	486	328
75°	168	200	267	298	298	179
85°	36	61	66	64	63	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.5	1112.5	1112.5	1112.5	1112.5
2.5°	1116.8	1108.2	1112.5	1111.4	1106.0
5°	1111.4	1103.8	1108.2	1107.1	1106.0
7.5°	1103.8	1096.2	1101.7	1100.6	1101.7
10°	1090.8	1084.3	1090.8	1091.9	1091.9
12.5°	1074.5	1069.1	1077.8	1079.9	1082.1
15°	1057.2	1052.8	1062.6	1066.9	1070.2
17.5°	1035.4	1032.2	1044.1	1049.6	1053.9
20°	1011.6	1010.5	1023.5	1028.9	1034.4
22.5°	984.4	984.4	999.6	1006.1	1013.7
25°	955.1	956.2	973.6	982.3	989.9
27.5°	923.7	924.7	945.4	956.2	964.9
30°	888.9	893.3	915.0	929.1	938.8
32.5°	854.2	859.6	883.5	899.8	910.6
35°	817.3	823.8	850.9	869.4	881.3
37.5°	779.3	786.9	816.2	836.8	850.9
40°	741.3	750.0	780.4	804.3	820.5
42.5°	701.1	710.9	744.6	772.8	790.2
45°	661.0	671.8	706.6	740.2	759.8
47.5°	620.8	633.9	670.8	707.7	728.3
50°	579.6	592.6	631.7	674.0	694.6
52.5°	538.3	553.5	597.0	640.4	661.0
55°	498.2	513.4	560.1	605.6	626.3
57.5°	456.9	472.1	523.1	570.9	591.5
60°	414.6	432.0	485.2	534.0	556.8
62.5°	373.4	391.8	448.3	500.4	522.1
65°	332.1	351.7	410.3	464.5	486.2
67.5°	289.8	312.6	373.4	428.7	451.5
70°	248.5	273.5	337.6	392.9	414.6
72.5°	208.4	235.5	301.7	358.2	371.2
75°	168.2	199.7	267.0	298.5	298.5
77.5°	130.2	165.0	227.9	239.9	246.4
80°	94.4	132.4	171.5	185.6	183.4
82.5°	63.0	100.9	122.6	122.6	119.4
85°	35.8	60.8	66.2	64.0	63.0
87.5°	15.2	22.8	20.6	16.3	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)