

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: P261122

Luminaire Tested: **24CZ-LD5-30-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2873.0 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

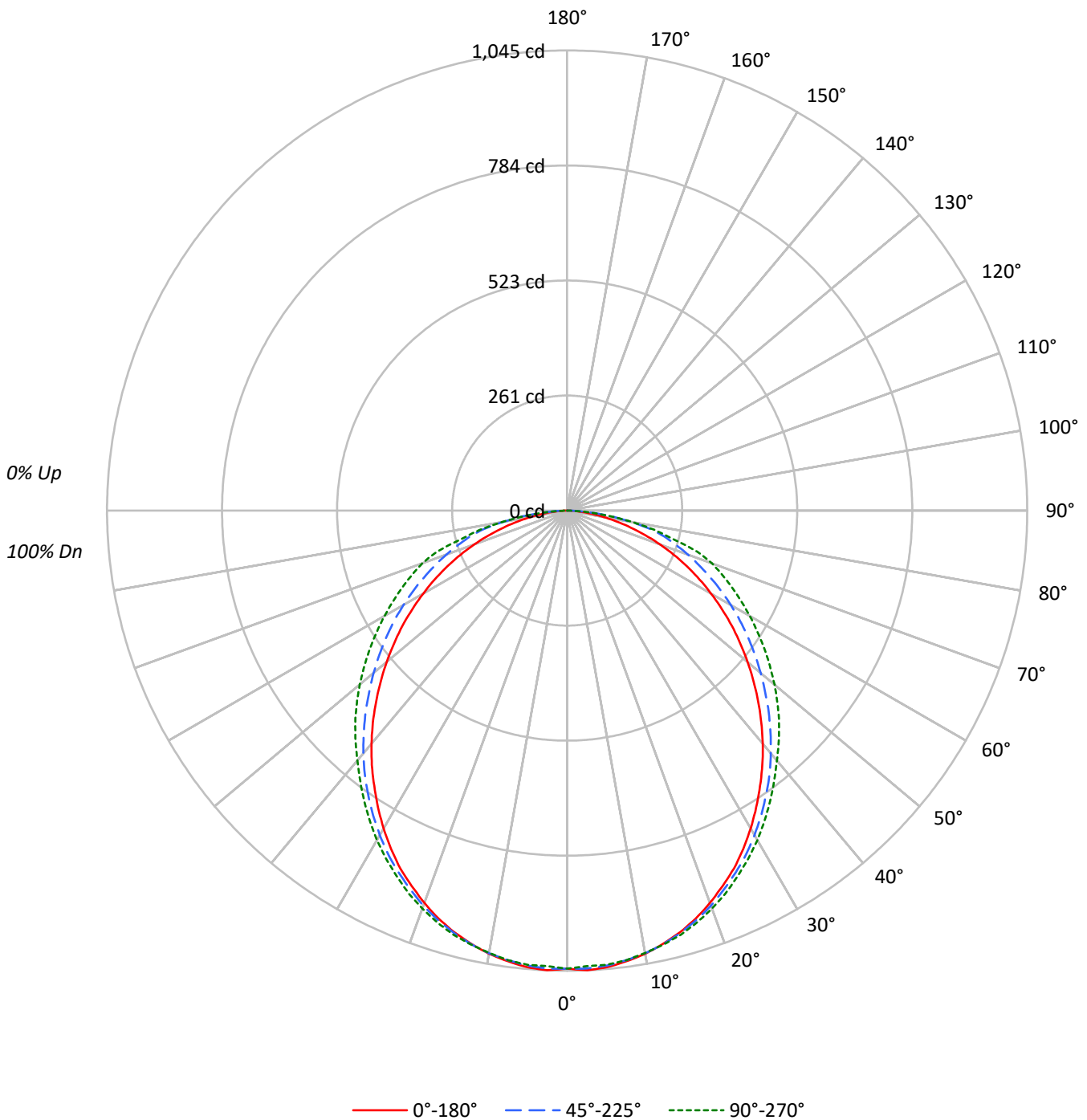
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1399	1399	1399
5°	1406	1401	1398
10°	1396	1395	1394
15°	1381	1383	1389
20°	1358	1367	1377
25°	1331	1345	1360
30°	1295	1322	1343
35°	1255	1294	1321
40°	1214	1264	1301
45°	1168	1231	1295
50°	1120	1201	1287
55°	1072	1175	1283
60°	1016	1155	1289
65°	956	1141	1315
70°	880	1147	1376
75°	780	1188	1282
80°	652	1126	1155
85°	486	900	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.4
10°-20°	279.7	9.7
20°-30°	416.8	14.5
30°-40°	490.6	17.1
40°-50°	498.6	17.4
50°-60°	448.2	15.6
60°-70°	354.1	12.3
70°-80°	224.7	7.8
80°-90°	62.0	2.2
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°	794.8	27.7
0°-40°	1285.4	44.7
0°-60°	2232.2	77.7
0°-90°	2873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1041	1032	1037	1035	1035	99
15°	991	986	993	996	997	279
25°	897	896	906	912	916	412
35°	764	769	788	796	804	478
45°	614	622	647	666	681	474
55°	457	468	501	533	547	408
65°	300	316	358	398	413	297
75°	150	176	228	248	247	160
85°	32	54	58	54	54	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1044.9	1037.2	1041.0	1039.1	1035.3
5°	1041.0	1032.4	1037.2	1035.3	1035.3
7.5°	1032.4	1025.7	1029.6	1028.6	1029.6
10°	1021.9	1015.2	1021.0	1021.0	1020.0
12.5°	1007.6	1001.8	1008.5	1008.5	1009.5
15°	991.3	986.5	993.2	996.1	997.1
17.5°	971.3	966.5	975.1	977.9	980.8
20°	948.3	946.4	955.0	957.9	961.7
22.5°	922.5	922.5	931.1	934.9	940.7
25°	896.7	895.7	906.2	912.0	915.8
27.5°	866.1	867.1	880.4	886.2	890.9
30°	833.6	835.5	850.8	857.5	864.2
32.5°	799.2	803.0	820.2	827.9	834.5
35°	763.8	768.6	787.7	796.3	804.0
37.5°	728.4	735.1	755.2	763.8	772.4
40°	691.2	696.9	719.8	730.3	740.9
42.5°	652.9	660.6	683.5	698.8	711.2
45°	613.7	622.3	647.2	666.3	680.6
47.5°	574.5	586.0	609.9	635.7	648.1
50°	535.3	546.8	573.6	602.3	614.7
52.5°	495.2	506.7	537.2	566.9	580.3
55°	456.9	468.4	500.9	533.4	546.8
57.5°	416.8	429.2	465.6	499.0	512.4
60°	377.6	390.0	429.2	464.6	478.9
62.5°	339.4	352.7	393.9	431.1	445.5
65°	300.2	315.5	358.5	397.7	413.0
67.5°	261.9	279.1	324.1	365.2	381.4
70°	223.7	243.8	291.6	333.6	349.9
72.5°	186.4	208.4	259.1	301.1	309.7
75°	150.1	175.9	228.5	248.5	246.6
77.5°	115.7	144.3	194.1	197.9	203.6
80°	84.1	115.7	145.3	153.0	149.1
82.5°	55.4	87.0	104.2	100.4	99.4
85°	31.5	54.5	58.3	53.5	53.5
87.5°	13.4	22.0	19.1	14.3	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)