

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: P260796

Luminaire Tested: **24CZ-LD5-30SE-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260796
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.0 lumens
Efficiency: N/A
Efficacy: 139.2 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

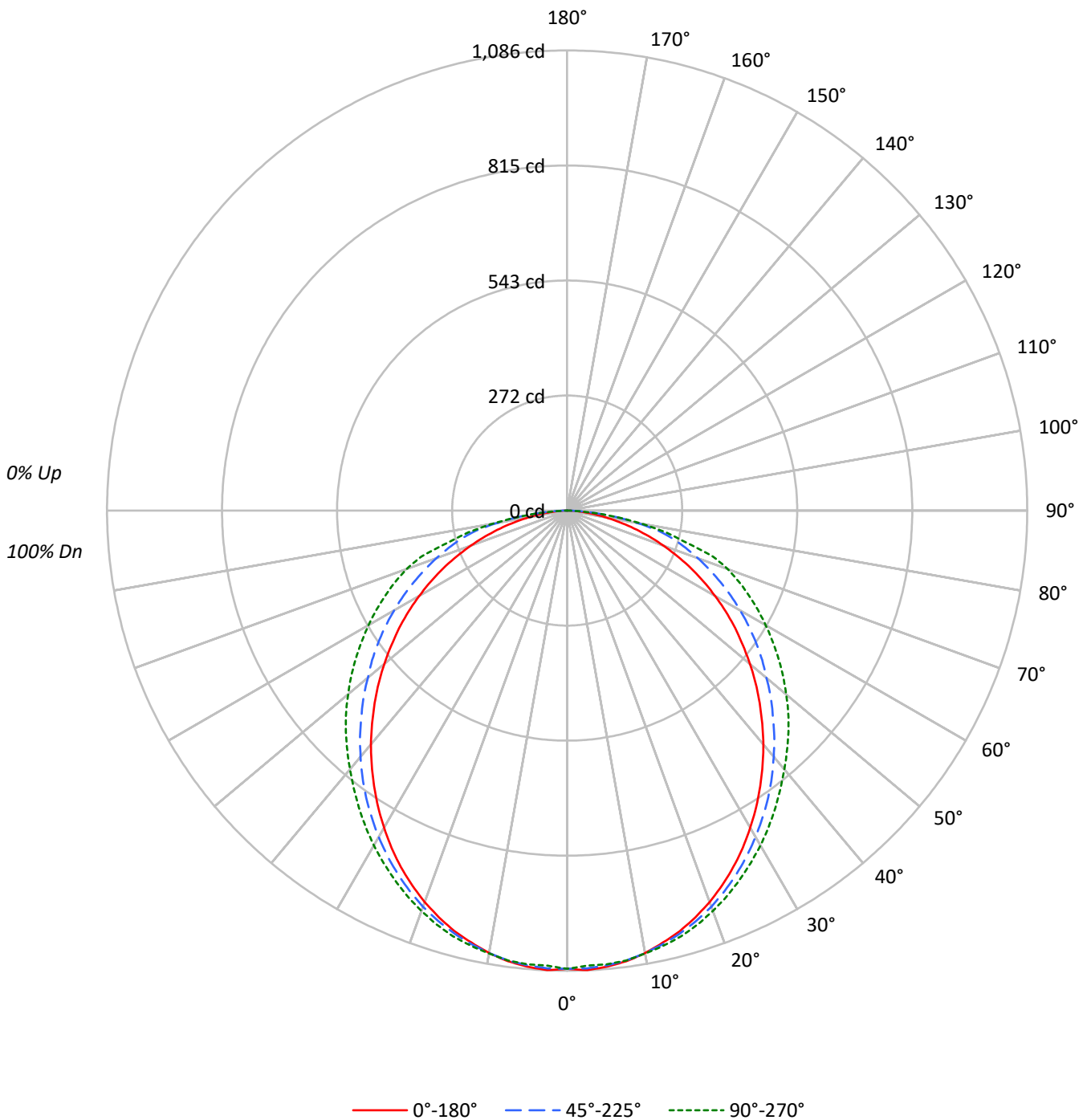
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1455	1455	1455
5°	1459	1455	1452
10°	1448	1448	1450
15°	1431	1439	1449
20°	1408	1424	1439
25°	1378	1405	1428
30°	1342	1382	1418
35°	1305	1358	1407
40°	1265	1332	1401
45°	1222	1307	1405
50°	1179	1285	1413
55°	1136	1277	1428
60°	1084	1269	1456
65°	1028	1270	1505
70°	950	1291	1585
75°	850	1349	1508
80°	711	1292	1382
85°	537	993	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.3
10°-20°	290.8	9.4
20°-30°	434.7	14.1
30°-40°	515.7	16.7
40°-50°	530.8	17.2
50°-60°	487.0	15.8
60°-70°	393.7	12.8
70°-80°	255.5	8.3
80°-90°	70.5	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°	827.7	26.9
0°-40°	1343.5	43.6
0°-60°	2361.3	76.6
0°-90°	3081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1080	1073	1077	1076	1075	102
15°	1028	1023	1033	1037	1040	289
25°	928	929	946	955	962	427
35°	794	801	827	845	857	497
45°	642	653	687	719	738	496
55°	484	499	544	589	609	433
65°	323	342	399	452	473	319
75°	164	194	260	290	290	174
85°	35	59	64	62	61	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.3	1081.3	1081.3	1081.3	1081.3
2.5°	1085.5	1077.1	1081.3	1080.2	1074.9
5°	1080.2	1072.8	1077.1	1076.0	1074.9
7.5°	1072.8	1065.4	1070.7	1069.7	1070.7
10°	1060.2	1053.8	1060.2	1061.2	1061.2
12.5°	1044.3	1039.1	1047.5	1049.6	1051.7
15°	1027.5	1023.3	1032.7	1037.0	1040.1
17.5°	1006.4	1003.2	1014.8	1020.1	1024.3
20°	983.2	982.1	994.8	1000.0	1005.3
22.5°	956.8	956.8	971.6	977.9	985.3
25°	928.3	929.4	946.2	954.7	962.1
27.5°	897.7	898.8	918.8	929.4	937.8
30°	864.0	868.2	889.3	903.0	912.5
32.5°	830.2	835.5	858.7	874.5	885.1
35°	794.3	800.7	827.0	845.0	856.6
37.5°	757.4	764.8	793.3	813.3	827.0
40°	720.5	728.9	758.5	781.7	797.5
42.5°	681.5	691.0	723.7	751.1	768.0
45°	642.4	653.0	686.7	719.4	738.4
47.5°	603.4	616.1	651.9	687.8	707.8
50°	563.3	576.0	614.0	655.1	675.1
52.5°	523.2	538.0	580.2	622.4	642.4
55°	484.2	499.0	544.3	588.6	608.7
57.5°	444.1	458.9	508.5	554.9	574.9
60°	403.0	419.8	471.5	519.0	541.2
62.5°	362.9	380.8	435.7	486.3	507.4
65°	322.8	341.8	398.8	451.5	472.6
67.5°	281.7	303.8	362.9	416.7	438.8
70°	241.6	265.8	328.1	381.9	403.0
72.5°	202.5	228.9	293.3	348.1	360.8
75°	163.5	194.1	259.5	290.1	290.1
77.5°	126.6	160.3	221.5	233.1	239.5
80°	91.8	128.7	166.7	180.4	178.3
82.5°	61.2	98.1	119.2	119.2	116.0
85°	34.8	59.1	64.3	62.2	61.2
87.5°	14.8	22.2	20.0	15.8	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)