

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: P260634

Luminaire Tested: **24CZ-LD5-35-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260634
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-LD5-35-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3230.5 lumens
Efficiency: N/A
Efficacy: 130.2 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

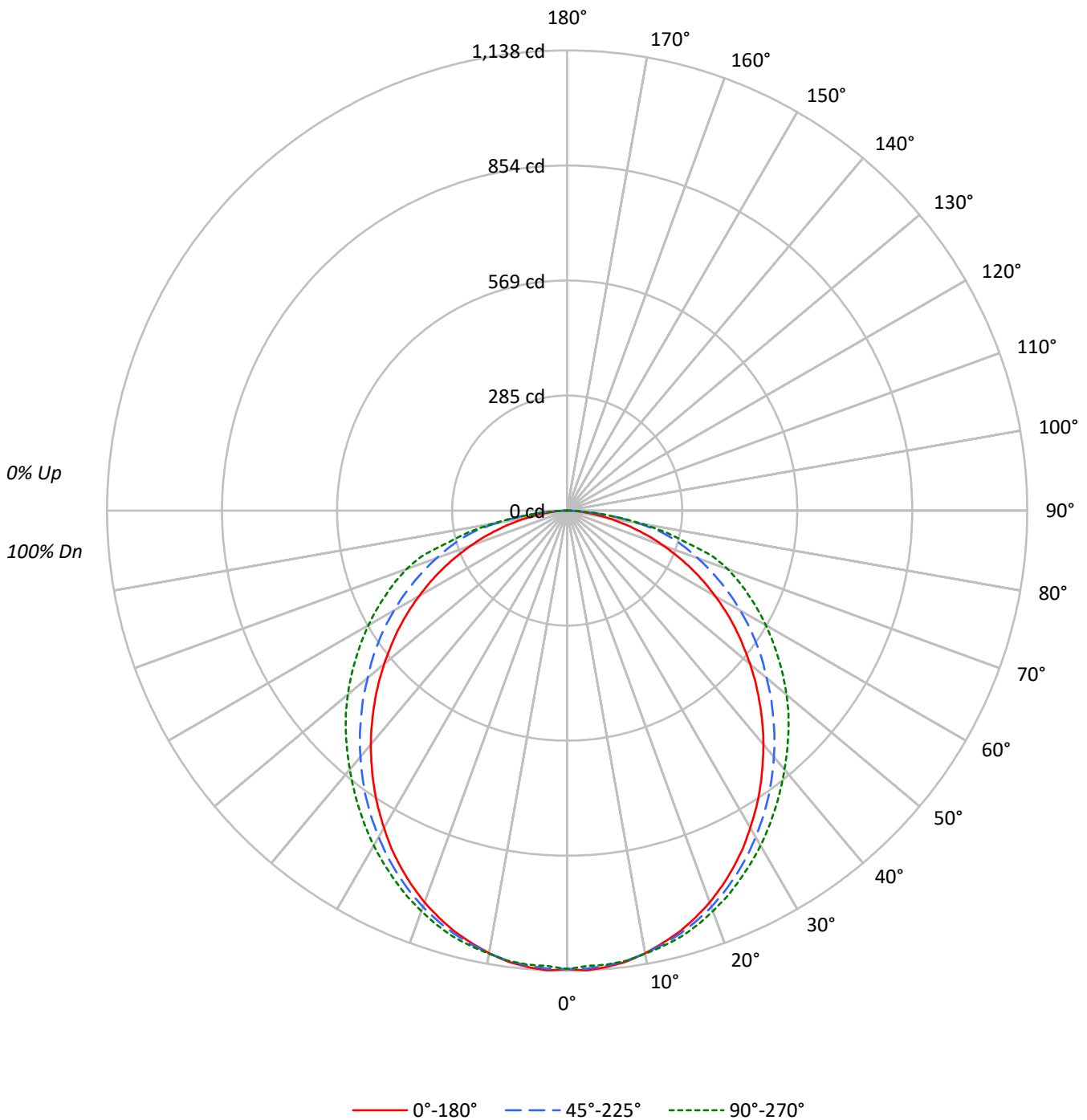
Input Watts (W): 24.80868
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1525	1525	1525
5°	1530	1525	1522
10°	1519	1519	1520
15°	1501	1508	1519
20°	1476	1493	1509
25°	1445	1473	1497
30°	1407	1449	1486
35°	1368	1424	1475
40°	1327	1397	1469
45°	1282	1370	1473
50°	1236	1347	1482
55°	1191	1339	1497
60°	1137	1330	1527
65°	1078	1331	1578
70°	996	1353	1662
75°	891	1415	1581
80°	745	1354	1448
85°	563	1042	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.3
10°-20°	304.9	9.4
20°-30°	455.8	14.1
30°-40°	540.8	16.7
40°-50°	556.6	17.2
50°-60°	510.6	15.8
60°-70°	412.8	12.8
70°-80°	267.9	8.3
80°-90°	73.9	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°	867.9	26.9
0°-40°	1408.6	43.6
0°-60°	2475.8	76.6
0°-90°	3230.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1133	1125	1129	1128	1127	107
15°	1077	1073	1083	1087	1091	303
25°	973	974	992	1001	1009	448
35°	833	840	867	886	898	521
45°	674	685	720	754	774	520
55°	508	523	571	617	638	454
65°	338	358	418	473	496	334
75°	171	204	272	304	304	182
85°	36	62	68	65	64	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1138.1	1129.3	1133.7	1132.6	1127.1
5°	1132.6	1124.9	1129.3	1128.2	1127.1
7.5°	1124.9	1117.1	1122.7	1121.6	1122.7
10°	1111.6	1105.0	1111.6	1112.7	1112.7
12.5°	1095.0	1089.5	1098.3	1100.5	1102.7
15°	1077.3	1072.9	1082.8	1087.3	1090.6
17.5°	1055.2	1051.9	1064.0	1069.6	1074.0
20°	1030.9	1029.7	1043.0	1048.6	1054.1
22.5°	1003.2	1003.2	1018.7	1025.3	1033.1
25°	973.3	974.4	992.1	1001.0	1008.7
27.5°	941.3	942.4	963.4	974.4	983.3
30°	905.9	910.3	932.4	946.8	956.7
32.5°	870.5	876.0	900.3	916.9	928.0
35°	832.9	839.5	867.2	886.0	898.1
37.5°	794.2	801.9	831.8	852.8	867.2
40°	755.4	764.3	795.3	819.6	836.2
42.5°	714.5	724.5	758.8	787.5	805.2
45°	673.6	684.7	720.0	754.3	774.2
47.5°	632.7	645.9	683.5	721.2	742.2
50°	590.6	603.9	643.7	686.9	707.9
52.5°	548.6	564.1	608.3	652.6	673.6
55°	507.7	523.2	570.7	617.2	638.2
57.5°	465.7	481.1	533.1	581.8	602.8
60°	422.5	440.2	494.4	544.2	567.4
62.5°	380.5	399.3	456.8	509.9	532.0
65°	338.5	358.4	418.1	473.4	495.5
67.5°	295.3	318.5	380.5	436.9	460.1
70°	253.3	278.7	344.0	400.4	422.5
72.5°	212.4	240.0	307.5	365.0	378.3
75°	171.4	203.5	272.1	304.2	304.2
77.5°	132.7	168.1	232.3	244.4	251.1
80°	96.2	134.9	174.8	189.1	186.9
82.5°	64.2	102.9	125.0	125.0	121.7
85°	36.5	61.9	67.5	65.3	64.2
87.5°	15.5	23.2	21.0	16.6	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)