

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: P260852

Luminaire Tested: **24CZ-LD5-35-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260852
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3303.0 lumens
Efficiency: N/A
Efficacy: 133.0 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

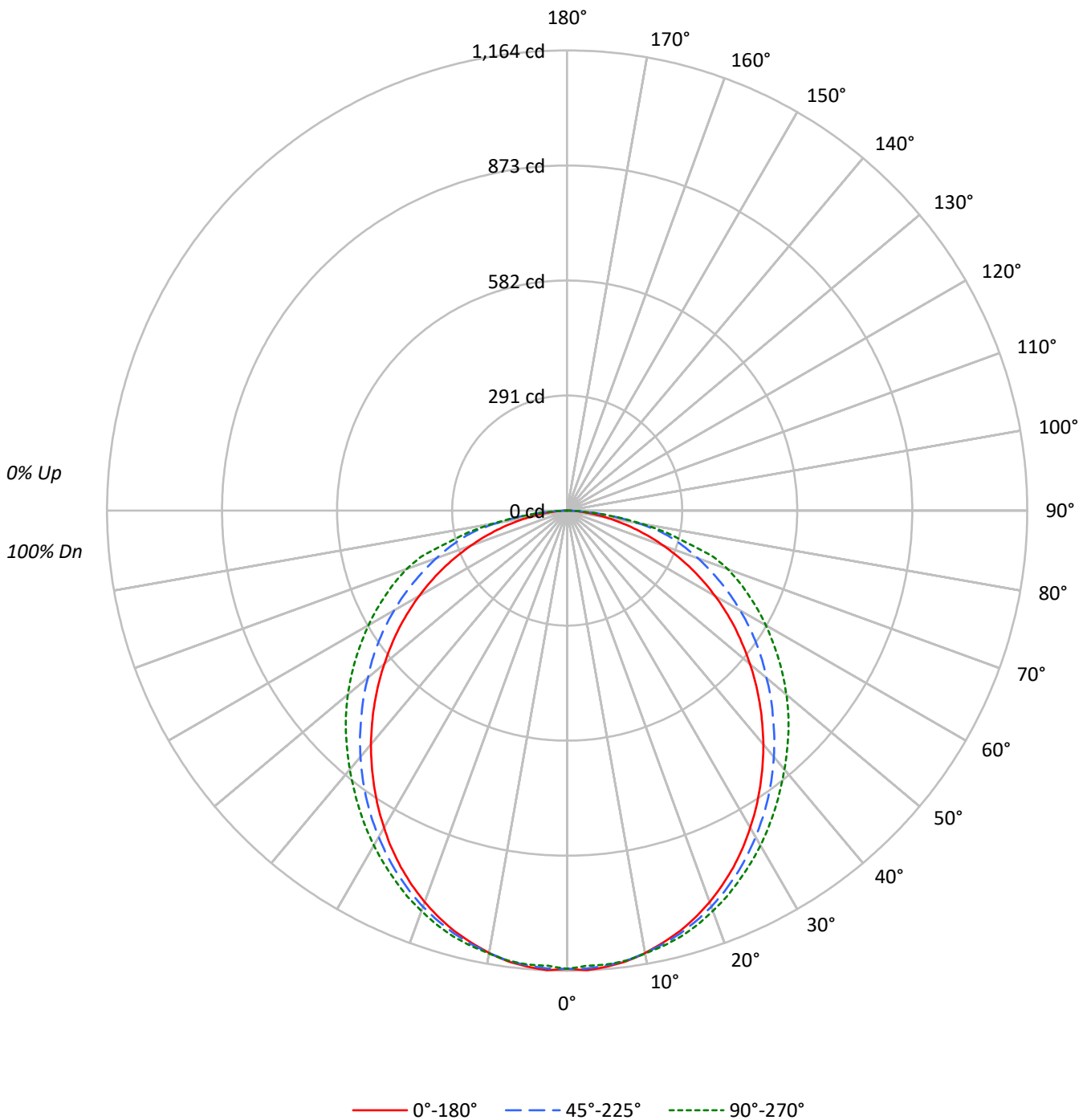
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1560	1560	1560
5°	1564	1560	1556
10°	1553	1553	1554
15°	1534	1542	1553
20°	1509	1527	1543
25°	1477	1506	1531
30°	1439	1481	1520
35°	1399	1456	1508
40°	1357	1428	1502
45°	1310	1401	1506
50°	1264	1378	1515
55°	1218	1369	1531
60°	1163	1360	1561
65°	1102	1361	1613
70°	1019	1384	1699
75°	911	1446	1617
80°	762	1385	1481
85°	576	1065	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.3
10°-20°	311.8	9.4
20°-30°	466.1	14.1
30°-40°	552.9	16.7
40°-50°	569.1	17.2
50°-60°	522.0	15.8
60°-70°	422.1	12.8
70°-80°	273.9	8.3
80°-90°	75.5	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°	887.4	26.9
0°-40°	1440.3	43.6
0°-60°	2531.4	76.6
0°-90°	3303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1158	1150	1155	1154	1152	110
15°	1102	1097	1107	1112	1115	310
25°	995	996	1014	1024	1031	458
35°	852	858	887	906	918	533
45°	689	700	736	771	792	531
55°	519	535	584	631	652	464
65°	346	366	428	484	507	342
75°	175	208	278	311	311	186
85°	37	63	69	67	66	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.2	1159.2	1159.2	1159.2	1159.2
2.5°	1163.7	1154.7	1159.2	1158.1	1152.4
5°	1158.1	1150.1	1154.7	1153.5	1152.4
7.5°	1150.1	1142.2	1147.9	1146.7	1147.9
10°	1136.6	1129.8	1136.6	1137.7	1137.7
12.5°	1119.6	1113.9	1123.0	1125.3	1127.5
15°	1101.5	1097.0	1107.2	1111.7	1115.1
17.5°	1078.9	1075.5	1087.9	1093.6	1098.1
20°	1054.0	1052.9	1066.4	1072.1	1077.8
22.5°	1025.7	1025.7	1041.6	1048.4	1056.3
25°	995.2	996.3	1014.4	1023.5	1031.4
27.5°	962.4	963.5	985.0	996.3	1005.4
30°	926.2	930.7	953.4	968.1	978.2
32.5°	890.0	895.7	920.6	937.5	948.8
35°	851.6	858.4	886.6	905.9	918.3
37.5°	812.0	819.9	850.4	871.9	886.6
40°	772.4	781.5	813.1	838.0	855.0
42.5°	730.6	740.7	775.8	805.2	823.3
45°	688.7	700.0	736.2	771.3	791.6
47.5°	646.9	660.5	698.9	737.4	758.8
50°	603.9	617.5	658.2	702.3	723.8
52.5°	560.9	576.8	622.0	667.2	688.7
55°	519.1	534.9	583.5	631.0	652.5
57.5°	476.1	491.9	545.1	594.9	616.3
60°	432.0	450.1	505.5	556.4	580.2
62.5°	389.0	408.3	467.1	521.3	544.0
65°	346.1	366.4	427.5	484.0	506.6
67.5°	302.0	325.7	389.0	446.7	470.5
70°	259.0	285.0	351.7	409.4	432.0
72.5°	217.1	245.4	314.4	373.2	386.8
75°	175.3	208.1	278.2	311.0	311.0
77.5°	135.7	171.9	237.5	249.9	256.7
80°	98.4	138.0	178.7	193.4	191.1
82.5°	65.6	105.2	127.8	127.8	124.4
85°	37.3	63.3	69.0	66.7	65.6
87.5°	15.8	23.7	21.5	17.0	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)