

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: P260947

Luminaire Tested: **24CZ-LD5-40SE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260947
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-LD5-40SE-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3463.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

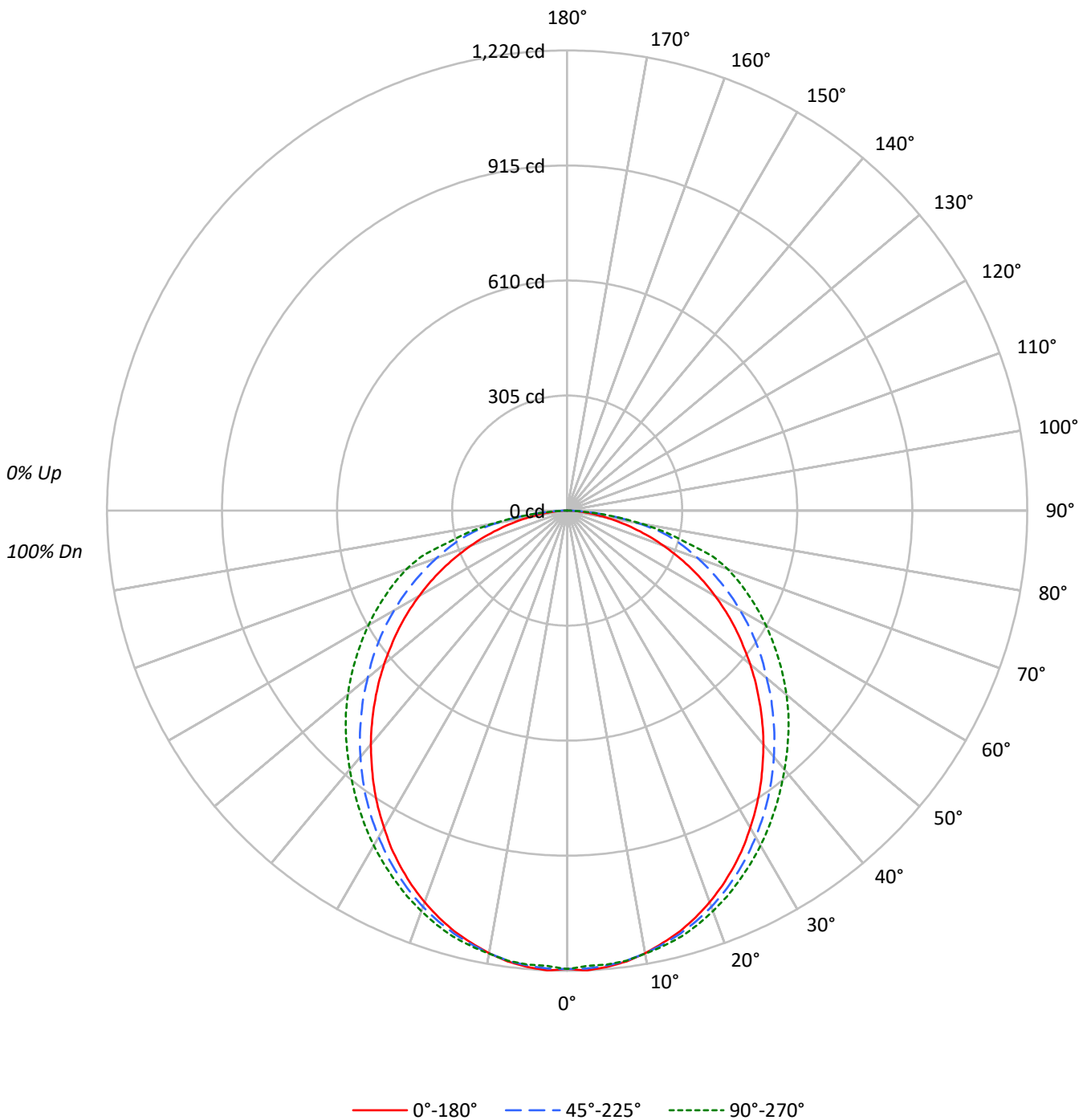
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1635	1635	1635
5°	1640	1635	1632
10°	1628	1628	1630
15°	1609	1617	1629
20°	1582	1601	1618
25°	1549	1579	1605
30°	1509	1553	1593
35°	1466	1527	1581
40°	1422	1497	1574
45°	1374	1469	1579
50°	1325	1445	1588
55°	1277	1435	1605
60°	1219	1426	1637
65°	1155	1427	1691
70°	1068	1450	1782
75°	955	1516	1695
80°	800	1451	1553
85°	604	1116	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.3
10°-20°	326.9	9.4
20°-30°	488.6	14.1
30°-40°	579.7	16.7
40°-50°	596.6	17.2
50°-60°	547.3	15.8
60°-70°	442.6	12.8
70°-80°	287.2	8.3
80°-90°	79.2	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°	930.3	26.9
0°-40°	1510.0	43.6
0°-60°	2654.0	76.6
0°-90°	3463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1214	1206	1211	1209	1208	115
15°	1155	1150	1161	1166	1169	325
25°	1043	1045	1064	1073	1081	480
35°	893	900	930	950	963	558
45°	722	734	772	809	830	557
55°	544	561	612	662	684	486
65°	363	384	448	508	531	359
75°	184	218	292	326	326	195
85°	39	66	72	70	69	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.3	1215.3	1215.3	1215.3	1215.3
2.5°	1220.1	1210.6	1215.3	1214.1	1208.2
5°	1214.1	1205.8	1210.6	1209.4	1208.2
7.5°	1205.8	1197.5	1203.5	1202.3	1203.5
10°	1191.6	1184.5	1191.6	1192.8	1192.8
12.5°	1173.8	1167.9	1177.4	1179.8	1182.1
15°	1154.9	1150.1	1160.8	1165.5	1169.1
17.5°	1131.1	1127.6	1140.6	1146.6	1151.3
20°	1105.1	1103.9	1118.1	1124.0	1130.0
22.5°	1075.4	1075.4	1092.0	1099.1	1107.4
25°	1043.4	1044.6	1063.6	1073.1	1081.3
27.5°	1009.0	1010.2	1032.7	1044.6	1054.1
30°	971.1	975.8	999.5	1015.0	1025.6
32.5°	933.1	939.1	965.2	982.9	994.8
35°	892.8	899.9	929.6	949.7	962.8
37.5°	851.3	859.6	891.6	914.2	929.6
40°	809.8	819.3	852.5	878.6	896.4
42.5°	766.0	776.6	813.4	844.2	863.2
45°	722.1	733.9	771.9	808.6	830.0
47.5°	678.2	692.4	732.8	773.1	795.6
50°	633.2	647.4	690.1	736.3	758.8
52.5°	588.1	604.7	652.1	699.6	722.1
55°	544.2	560.8	611.8	661.6	684.1
57.5°	499.2	515.8	571.5	623.7	646.2
60°	452.9	471.9	530.0	583.4	608.3
62.5°	407.9	428.0	489.7	546.6	570.3
65°	362.8	384.2	448.2	507.5	531.2
67.5°	316.6	341.5	407.9	468.3	493.2
70°	271.5	298.8	368.7	429.2	452.9
72.5°	227.7	257.3	329.6	391.3	405.5
75°	183.8	218.2	291.7	326.1	326.1
77.5°	142.3	180.2	249.0	262.0	269.2
80°	103.2	144.7	187.3	202.8	200.4
82.5°	68.8	110.3	134.0	134.0	130.4
85°	39.1	66.4	72.3	70.0	68.8
87.5°	16.6	24.9	22.5	17.8	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)