

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: P260938

Luminaire Tested: **24CZ-LD5-35SE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260938  
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-LD5-35SE-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: 3043.0 lumens  
Efficiency: N/A  
Efficacy: 116.4 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

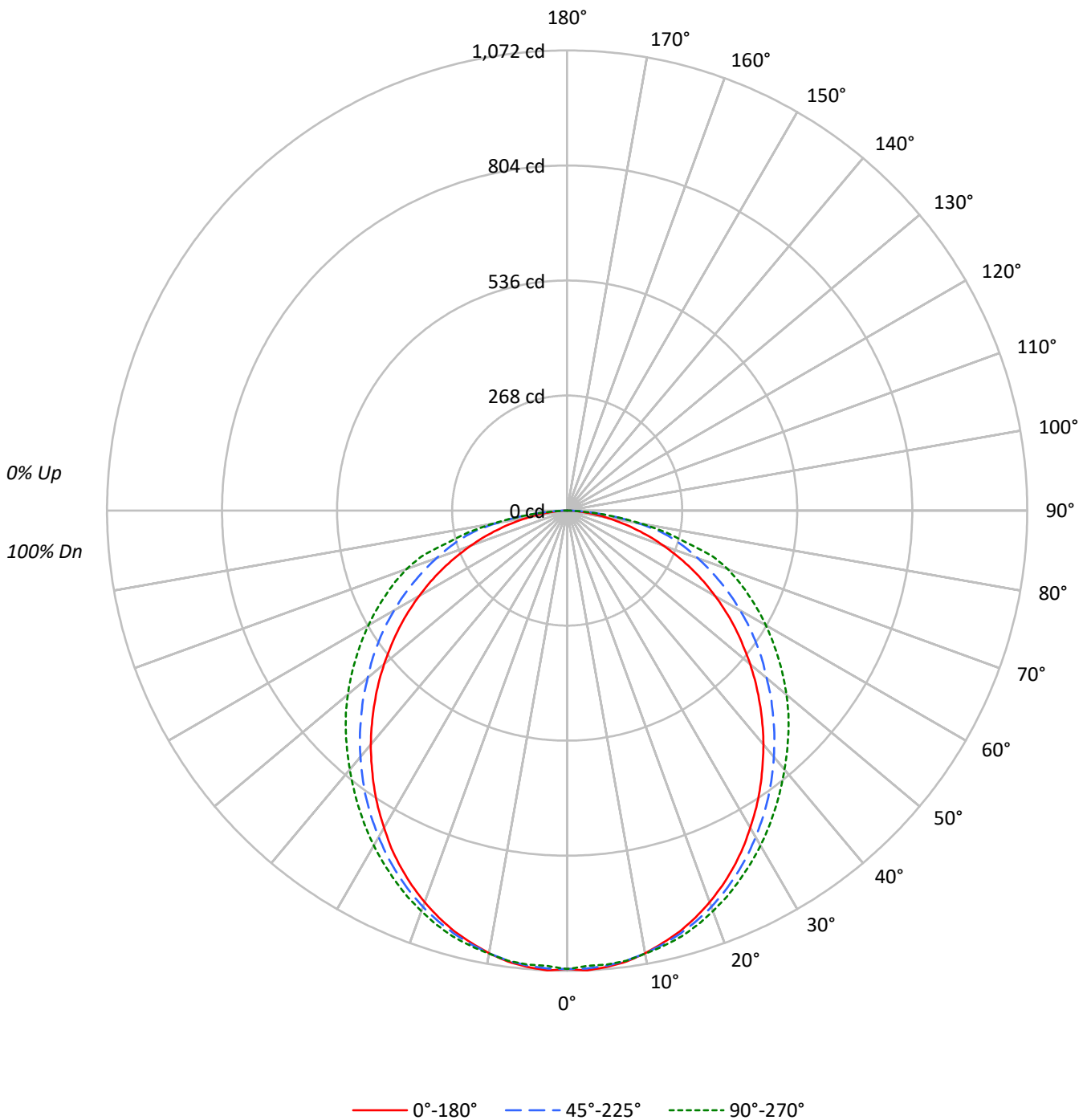
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1437	1437	1437
5°	1441	1437	1434
10°	1431	1431	1432
15°	1414	1421	1431
20°	1390	1407	1422
25°	1361	1387	1411
30°	1326	1365	1400
35°	1289	1342	1390
40°	1250	1316	1384
45°	1207	1291	1388
50°	1165	1269	1396
55°	1122	1261	1410
60°	1071	1253	1438
65°	1015	1254	1486
70°	939	1275	1566
75°	840	1332	1489
80°	702	1275	1364
85°	531	982	932



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	3.3
10°-20°	287.2	9.4
20°-30°	429.4	14.1
30°-40°	509.4	16.7
40°-50°	524.3	17.2
50°-60°	481.0	15.8
60°-70°	388.9	12.8
70°-80°	252.4	8.3
80°-90°	69.6	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°	817.5	26.9
0°-40°	1326.9	43.6
0°-60°	2332.1	76.6
0°-90°	3043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1067	1060	1064	1063	1062	101
15°	1015	1011	1020	1024	1027	286
25°	917	918	935	943	950	422
35°	784	791	817	835	846	491
45°	634	645	678	711	729	490
55°	478	493	538	581	601	427
65°	319	338	394	446	467	315
75°	162	192	256	286	286	172
85°	34	58	64	62	60	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1067.9	1067.9	1067.9	1067.9	1067.9
2.5°	1072.1	1063.8	1067.9	1066.9	1061.7
5°	1066.9	1059.6	1063.8	1062.7	1061.7
7.5°	1059.6	1052.3	1057.5	1056.5	1057.5
10°	1047.1	1040.8	1047.1	1048.1	1048.1
12.5°	1031.5	1026.3	1034.6	1036.7	1038.8
15°	1014.8	1010.6	1020.0	1024.2	1027.3
17.5°	994.0	990.8	1002.3	1007.5	1011.7
20°	971.0	970.0	982.5	987.7	992.9
22.5°	945.0	945.0	959.6	965.8	973.1
25°	916.9	917.9	934.6	942.9	950.2
27.5°	886.6	887.7	907.5	917.9	926.2
30°	853.3	857.5	878.3	891.9	901.2
32.5°	820.0	825.2	848.1	863.7	874.1
35°	784.5	790.8	816.8	834.6	846.0
37.5°	748.1	755.4	783.5	803.3	816.8
40°	711.6	719.9	749.1	772.0	787.7
42.5°	673.1	682.4	714.7	741.8	758.5
45°	634.5	644.9	678.3	710.6	729.3
47.5°	596.0	608.5	643.9	679.3	699.1
50°	556.4	568.9	606.4	647.0	666.8
52.5°	516.8	531.4	573.0	614.7	634.5
55°	478.2	492.8	537.6	581.4	601.2
57.5°	438.6	453.2	502.2	548.0	567.8
60°	398.0	414.7	465.7	512.6	534.5
62.5°	358.4	376.1	430.3	480.3	501.1
65°	318.8	337.6	393.8	445.9	466.8
67.5°	278.2	300.1	358.4	411.5	433.4
70°	238.6	262.6	324.0	377.2	398.0
72.5°	200.0	226.1	289.6	343.8	356.3
75°	161.5	191.7	256.3	286.5	286.5
77.5°	125.0	158.4	218.8	230.3	236.5
80°	90.6	127.1	164.6	178.2	176.1
82.5°	60.4	96.9	117.7	117.7	114.6
85°	34.4	58.3	63.6	61.5	60.4
87.5°	14.6	21.9	19.8	15.6	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)