

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: P260703

Luminaire Tested: **24CZ-LD5-30-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260703  
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-LD5-30-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2898.0 lumens  
Efficiency: N/A  
Efficacy: 148.4 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

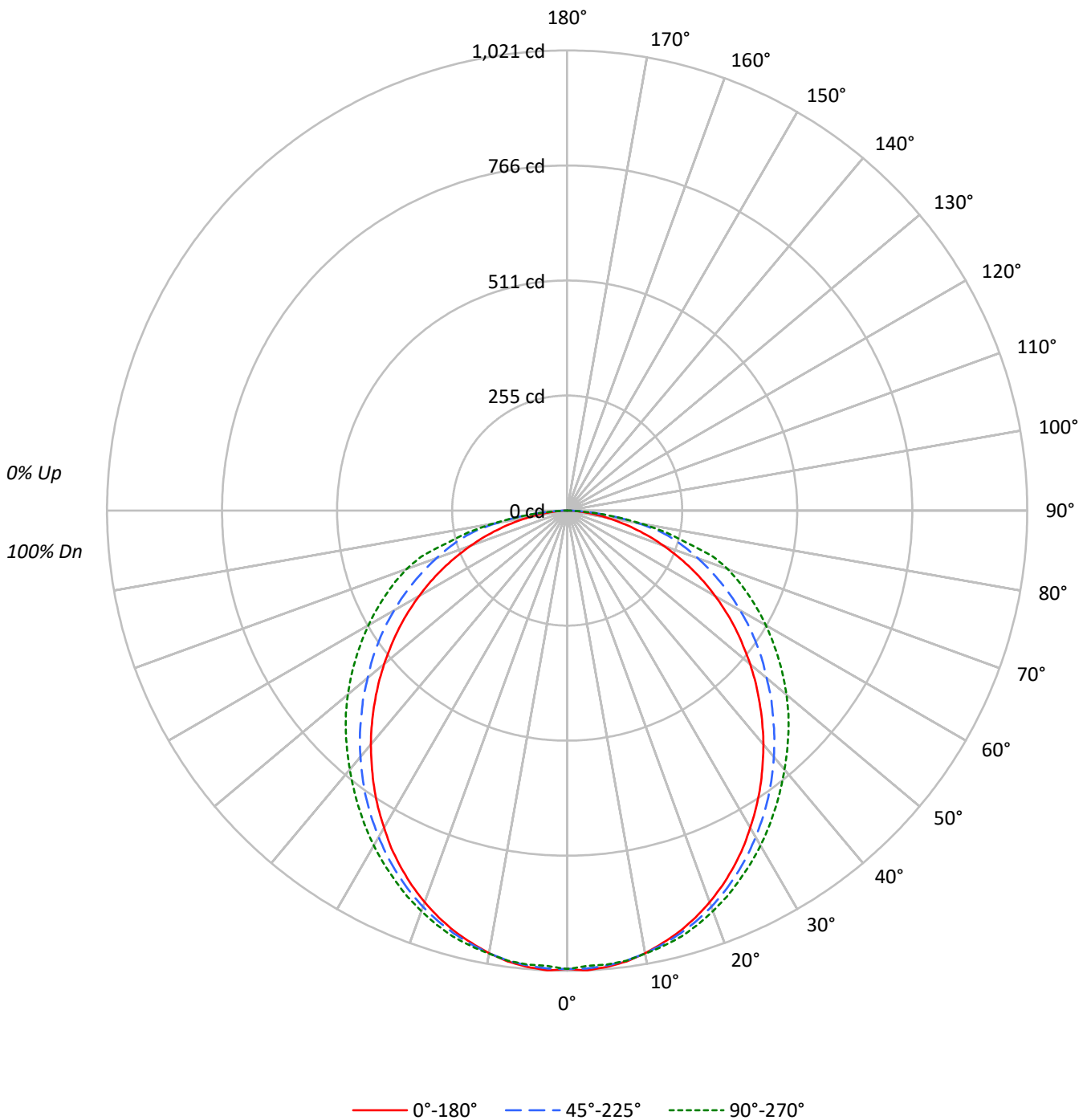
Input Watts (W): 19.53  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1368	1368	1368
5°	1372	1368	1366
10°	1362	1362	1364
15°	1346	1353	1363
20°	1324	1340	1354
25°	1296	1321	1343
30°	1262	1300	1333
35°	1227	1278	1323
40°	1190	1253	1317
45°	1150	1229	1322
50°	1109	1209	1329
55°	1068	1201	1343
60°	1020	1193	1370
65°	967	1194	1415
70°	894	1214	1491
75°	800	1269	1419
80°	669	1215	1299
85°	505	934	888



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.3
10°-20°	273.5	9.4
20°-30°	408.9	14.1
30°-40°	485.1	16.7
40°-50°	499.3	17.2
50°-60°	458.0	15.8
60°-70°	370.3	12.8
70°-80°	240.4	8.3
80°-90°	66.3	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°	778.6	26.9
0°-40°	1263.7	43.6
0°-60°	2221.0	76.6
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1016	1009	1013	1012	1011	96
15°	966	962	971	975	978	272
25°	873	874	890	898	905	402
35°	747	753	778	795	806	467
45°	604	614	646	677	695	466
55°	455	469	512	554	572	407
65°	304	322	375	425	444	300
75°	154	183	244	273	273	163
85°	33	56	60	58	58	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1017.0	1017.0	1017.0	1017.0	1017.0
2.5°	1021.0	1013.1	1017.0	1016.1	1011.1
5°	1016.1	1009.1	1013.1	1012.1	1011.1
7.5°	1009.1	1002.2	1007.1	1006.1	1007.1
10°	997.2	991.2	997.2	998.2	998.2
12.5°	982.3	977.4	985.3	987.3	989.3
15°	966.4	962.5	971.4	975.4	978.3
17.5°	946.6	943.6	954.5	959.5	963.5
20°	924.8	923.8	935.7	940.6	945.6
22.5°	900.0	900.0	913.9	919.8	926.8
25°	873.2	874.2	890.0	898.0	904.9
27.5°	844.4	845.4	864.2	874.2	882.1
30°	812.6	816.6	836.5	849.4	858.3
32.5°	780.9	785.9	807.7	822.6	832.5
35°	747.2	753.1	777.9	794.8	805.7
37.5°	712.4	719.4	746.2	765.0	777.9
40°	677.7	685.6	713.4	735.3	750.1
42.5°	641.0	649.9	680.7	706.5	722.4
45°	604.3	614.2	645.9	676.7	694.6
47.5°	567.6	579.5	613.2	646.9	665.8
50°	529.9	541.8	577.5	616.2	635.0
52.5°	492.2	506.0	545.7	585.4	604.3
55°	455.4	469.3	512.0	553.7	572.5
57.5°	417.7	431.6	478.3	521.9	540.8
60°	379.0	394.9	443.5	488.2	509.0
62.5°	341.3	358.2	409.8	457.4	477.3
65°	303.6	321.5	375.1	424.7	444.5
67.5°	264.9	285.8	341.3	391.9	412.8
70°	227.2	250.0	308.6	359.2	379.0
72.5°	190.5	215.3	275.8	327.4	339.3
75°	153.8	182.6	244.1	272.9	272.9
77.5°	119.1	150.8	208.4	219.3	225.2
80°	86.3	121.1	156.8	169.7	167.7
82.5°	57.5	92.3	112.1	112.1	109.1
85°	32.7	55.6	60.5	58.5	57.5
87.5°	13.9	20.8	18.9	14.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)