

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: P260705

Luminaire Tested: **24CZ-LD5-30-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260705  
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-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3064.0 lumens  
Efficiency: N/A  
Efficacy: 154.7 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

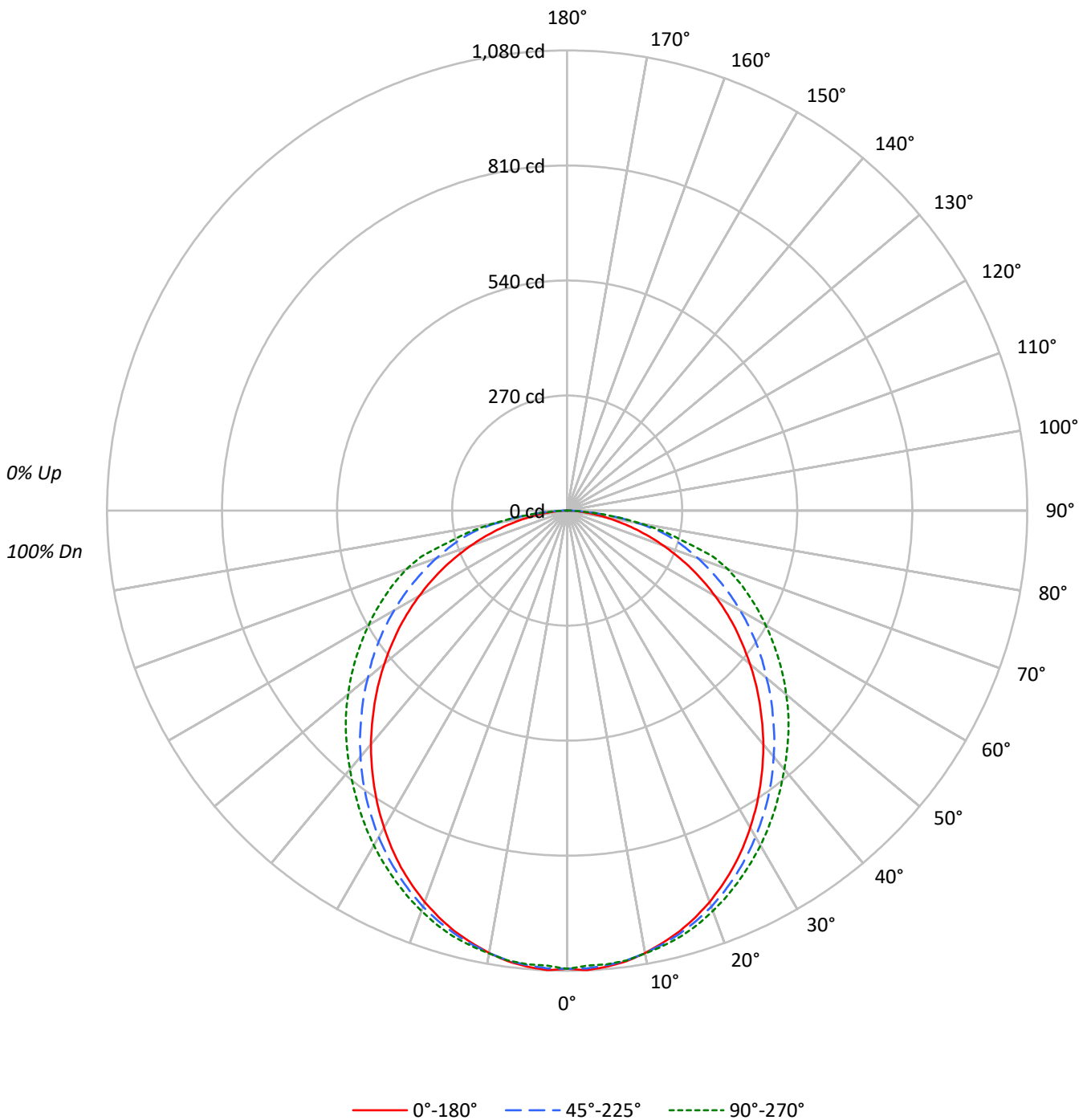
Input Watts (W): 19.809  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1447	1447	1447
5°	1451	1447	1444
10°	1440	1440	1442
15°	1423	1431	1441
20°	1400	1417	1432
25°	1371	1397	1420
30°	1335	1374	1410
35°	1298	1351	1399
40°	1258	1325	1393
45°	1216	1299	1397
50°	1173	1278	1405
55°	1129	1270	1420
60°	1078	1262	1448
65°	1022	1263	1496
70°	945	1284	1576
75°	845	1342	1500
80°	707	1285	1374
85°	534	988	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	3.3
10°-20°	289.2	9.4
20°-30°	432.3	14.1
30°-40°	512.9	16.7
40°-50°	527.9	17.2
50°-60°	484.3	15.8
60°-70°	391.6	12.8
70°-80°	254.1	8.3
80°-90°	70.1	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°	823.2	26.9
0°-40°	1336.1	43.6
0°-60°	2348.2	76.6
0°-90°	3064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1074	1067	1071	1070	1069	102
15°	1022	1018	1027	1031	1034	288
25°	923	924	941	949	957	425
35°	790	796	822	840	852	494
45°	639	649	683	716	734	493
55°	482	496	541	585	605	430
65°	321	340	397	449	470	317
75°	163	193	258	288	288	173
85°	35	59	64	62	61	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1079.5	1071.1	1075.3	1074.3	1069.0
5°	1074.3	1066.9	1071.1	1070.1	1069.0
7.5°	1066.9	1059.6	1064.8	1063.8	1064.8
10°	1054.3	1048.0	1054.3	1055.4	1055.4
12.5°	1038.6	1033.3	1041.7	1043.8	1045.9
15°	1021.8	1017.6	1027.0	1031.2	1034.4
17.5°	1000.8	997.7	1009.2	1014.5	1018.7
20°	977.7	976.7	989.3	994.5	999.8
22.5°	951.5	951.5	966.2	972.5	979.8
25°	923.2	924.2	941.0	949.4	956.8
27.5°	892.8	893.8	913.7	924.2	932.6
30°	859.2	863.4	884.4	898.0	907.5
32.5°	825.6	830.9	853.9	869.7	880.2
35°	790.0	796.3	822.5	840.3	851.9
37.5°	753.2	760.6	788.9	808.8	822.5
40°	716.5	724.9	754.3	777.4	793.1
42.5°	677.7	687.1	719.7	746.9	763.7
45°	638.9	649.4	682.9	715.5	734.4
47.5°	600.1	612.7	648.3	684.0	703.9
50°	560.2	572.8	610.6	651.5	671.4
52.5°	520.3	535.0	577.0	619.0	638.9
55°	481.5	496.2	541.3	585.4	605.3
57.5°	441.7	456.3	505.7	551.8	571.7
60°	400.7	417.5	468.9	516.1	538.2
62.5°	360.9	378.7	433.3	483.6	504.6
65°	321.0	339.9	396.6	449.0	470.0
67.5°	280.1	302.1	360.9	414.4	436.4
70°	240.2	264.4	326.3	379.8	400.7
72.5°	201.4	227.6	291.6	346.2	358.8
75°	162.6	193.0	258.1	288.5	288.5
77.5°	125.9	159.5	220.3	231.8	238.1
80°	91.3	128.0	165.8	179.4	177.3
82.5°	60.8	97.6	118.5	118.5	115.4
85°	34.6	58.7	64.0	61.9	60.8
87.5°	14.7	22.0	19.9	15.7	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)