

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: P263678

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3205.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

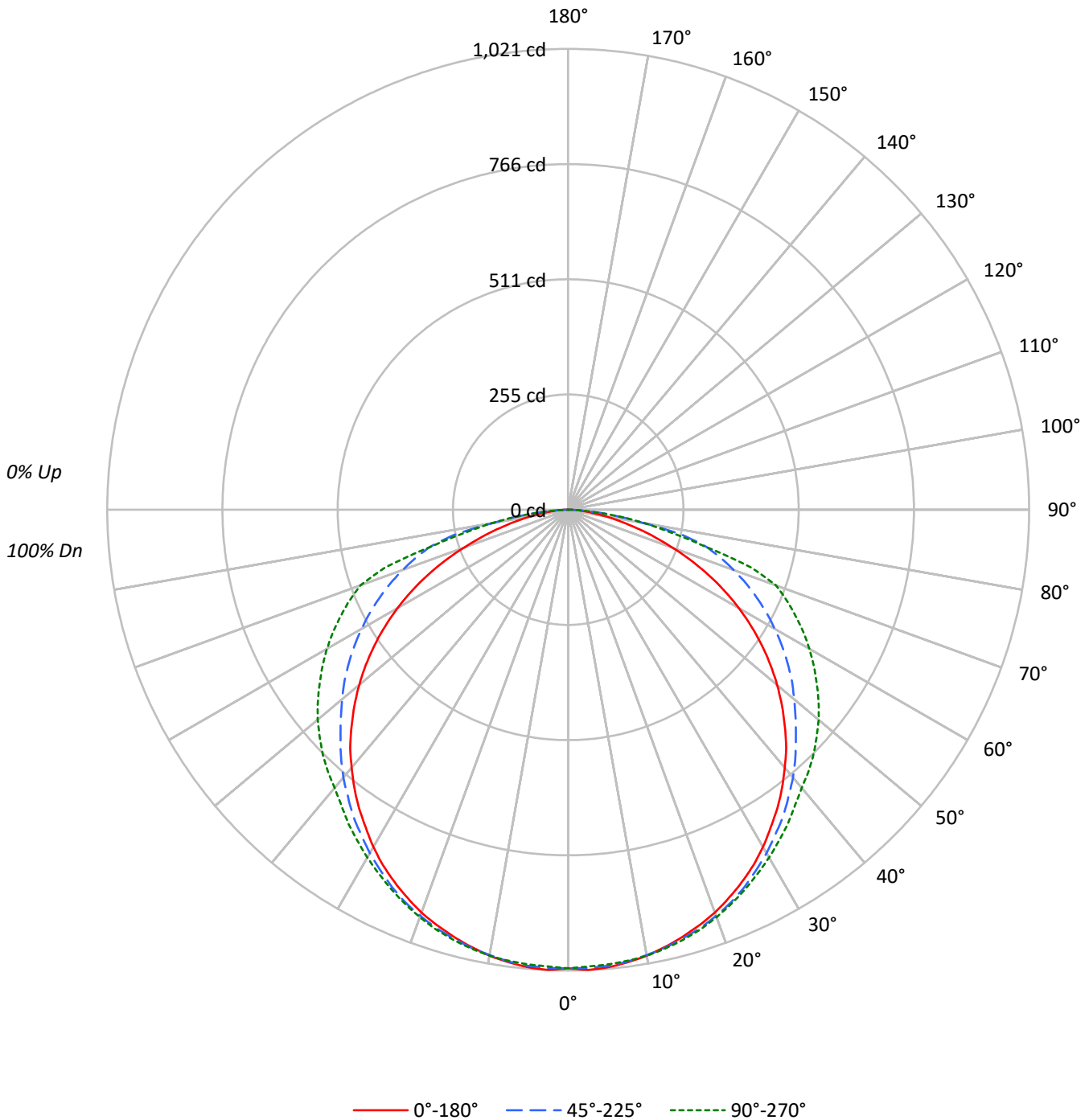
Input Watts (W): 35.712  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1367	1367	1367
5°	1374	1370	1366
10°	1371	1369	1371
15°	1365	1369	1373
20°	1360	1371	1376
25°	1351	1370	1377
30°	1341	1365	1382
35°	1327	1363	1394
40°	1311	1361	1413
45°	1291	1357	1462
50°	1265	1367	1516
55°	1229	1392	1577
60°	1176	1422	1660
65°	1095	1467	1768
70°	968	1533	1924
75°	812	1640	1616
80°	648	1296	1344
85°	511	877	804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.4	3.0
10°-20°	277.3	8.7
20°-30°	423.6	13.2
30°-40°	517.9	16.2
40°-50°	554.3	17.3
50°-60°	531.7	16.6
60°-70°	449.0	14.0
70°-80°	286.9	9.0
80°-90°	67.9	2.1
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°	797.3	24.9
0°-40°	1315.2	41.0
0°-60°	2401.3	74.9
0°-90°	3205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1018	1011	1014	1013	1011	97
15°	980	977	983	986	986	277
25°	910	909	923	926	928	420
35°	808	814	830	841	849	505
45°	678	689	713	746	768	523
55°	524	541	593	647	672	467
65°	344	377	461	525	555	339
75°	156	222	316	322	311	168
85°	33	55	57	55	52	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1016.0	1016.0	1016.0	1016.0	1016.0
2.5°	1020.7	1014.4	1016.0	1016.0	1012.9
5°	1017.6	1011.3	1014.4	1012.9	1011.3
7.5°	1011.3	1006.5	1009.7	1009.7	1008.1
10°	1003.4	998.7	1001.8	1003.4	1003.4
12.5°	992.3	989.2	993.9	993.9	995.5
15°	979.7	976.6	982.9	986.0	986.0
17.5°	965.5	963.9	971.8	973.4	975.0
20°	949.8	948.2	957.6	957.6	960.8
22.5°	930.8	929.2	941.9	941.9	945.0
25°	910.3	908.7	922.9	926.1	927.7
27.5°	888.2	886.6	900.8	905.6	908.7
30°	863.0	863.0	878.8	885.1	889.8
32.5°	834.6	839.3	853.5	863.0	869.3
35°	807.8	814.1	829.8	840.9	848.8
37.5°	777.8	784.1	801.5	815.6	825.1
40°	746.2	754.1	774.6	790.4	804.6
42.5°	714.7	722.6	744.7	768.3	787.3
45°	678.4	689.4	713.1	746.2	768.3
47.5°	642.1	653.2	683.1	724.1	746.2
50°	604.2	616.9	653.2	700.5	724.1
52.5°	564.8	579.0	624.8	675.2	698.9
55°	523.8	541.1	593.2	646.8	672.1
57.5°	481.2	500.1	561.6	618.4	645.3
60°	437.0	460.7	528.5	588.5	616.9
62.5°	391.3	419.7	495.4	556.9	586.9
65°	343.9	377.1	460.7	525.4	555.3
67.5°	295.0	339.2	426.0	493.8	523.8
70°	246.1	298.2	389.7	459.1	489.1
72.5°	200.4	260.3	353.4	418.1	424.4
75°	156.2	222.4	315.5	321.8	310.8
77.5°	116.7	184.6	260.3	231.9	230.3
80°	83.6	148.3	167.2	172.0	173.5
82.5°	55.2	112.0	108.9	112.0	110.4
85°	33.1	55.2	56.8	55.2	52.1
87.5°	15.8	20.5	15.8	14.2	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)