

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: P263676

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263676  
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-LD5-45-RDP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3250.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 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

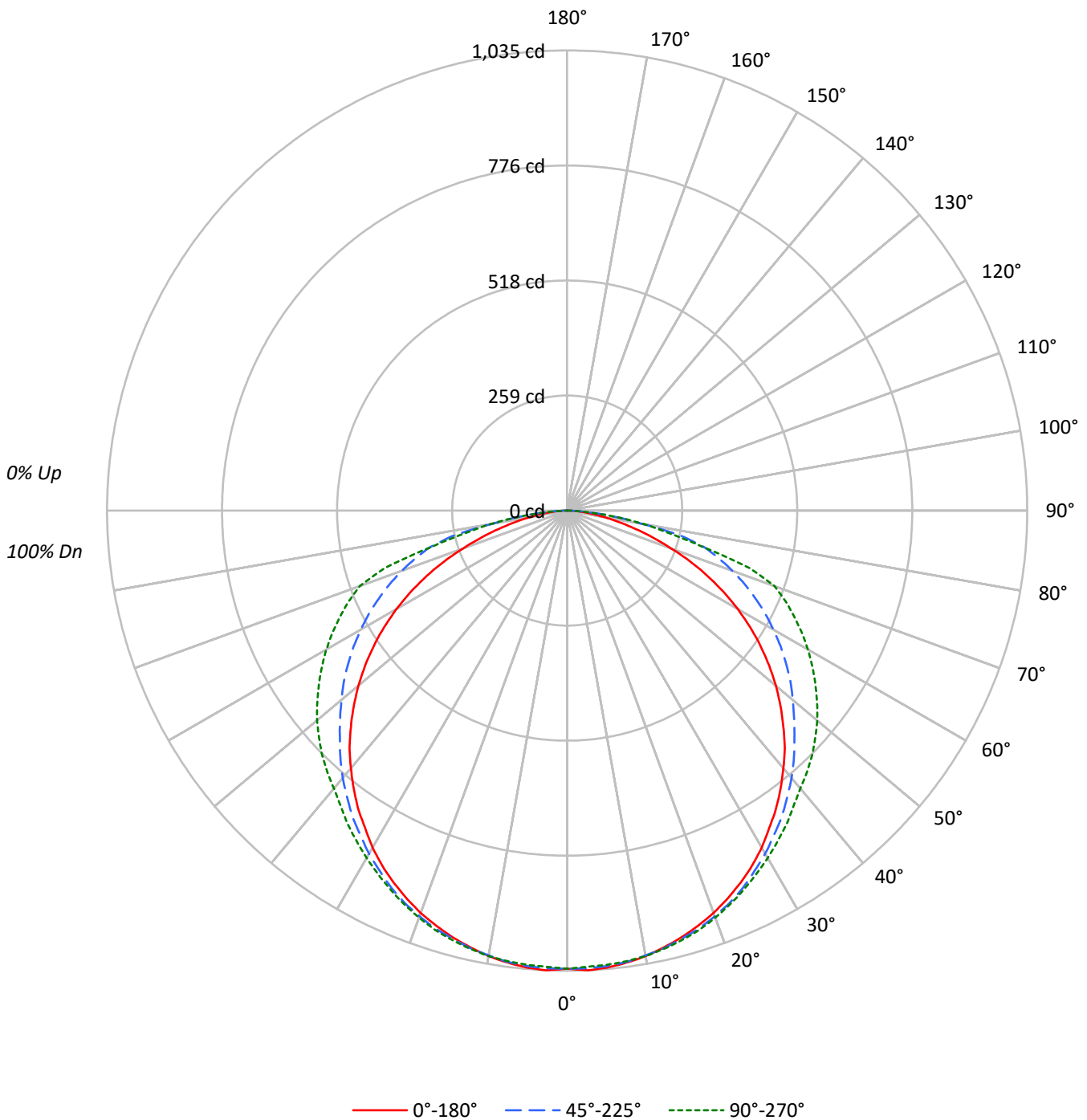
Input Watts (W): 32.271  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1386	1386	1386
5°	1394	1389	1385
10°	1390	1388	1390
15°	1384	1388	1393
20°	1379	1390	1395
25°	1370	1389	1397
30°	1360	1384	1402
35°	1345	1382	1414
40°	1329	1380	1433
45°	1309	1376	1482
50°	1283	1386	1537
55°	1246	1411	1599
60°	1192	1442	1683
65°	1110	1487	1793
70°	982	1555	1951
75°	823	1664	1639
80°	657	1314	1364
85°	519	889	815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	3.0
10°-20°	281.2	8.7
20°-30°	429.6	13.2
30°-40°	525.2	16.2
40°-50°	562.1	17.3
50°-60°	539.2	16.6
60°-70°	455.2	14.0
70°-80°	291.0	9.0
80°-90°	68.8	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°	808.5	24.9
0°-40°	1333.7	41.0
0°-60°	2435.0	74.9
0°-90°	3250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1032	1026	1029	1027	1026	98
15°	994	990	997	1000	1000	280
25°	923	922	936	939	941	425
35°	819	826	842	853	861	512
45°	688	699	723	757	779	531
55°	531	549	602	656	682	474
65°	349	382	467	533	563	344
75°	158	226	320	326	315	171
85°	34	56	58	56	53	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1035.1	1028.7	1030.3	1030.3	1027.1
5°	1031.9	1025.5	1028.7	1027.1	1025.5
7.5°	1025.5	1020.7	1023.9	1023.9	1022.3
10°	1017.5	1012.7	1015.9	1017.5	1017.5
12.5°	1006.3	1003.1	1007.9	1007.9	1009.5
15°	993.5	990.3	996.7	999.9	999.9
17.5°	979.1	977.5	985.5	987.1	988.7
20°	963.1	961.5	971.1	971.1	974.3
22.5°	943.9	942.3	955.1	955.1	958.3
25°	923.1	921.5	935.9	939.1	940.7
27.5°	900.7	899.1	913.5	918.3	921.5
30°	875.1	875.1	891.1	897.5	902.3
32.5°	846.3	851.1	865.5	875.1	881.5
35°	819.1	825.5	841.5	852.7	860.7
37.5°	788.7	795.1	812.7	827.1	836.7
40°	756.7	764.7	785.5	801.5	815.9
42.5°	724.7	732.7	755.1	779.1	798.3
45°	687.9	699.1	723.1	756.7	779.1
47.5°	651.1	662.3	692.7	734.3	756.7
50°	612.7	625.5	662.3	710.3	734.3
52.5°	572.7	587.1	633.5	684.7	708.7
55°	531.1	548.7	601.5	655.9	681.5
57.5°	487.9	507.1	569.5	627.1	654.3
60°	443.1	467.1	535.9	596.7	625.5
62.5°	396.8	425.5	502.3	564.7	595.1
65°	348.8	382.4	467.1	532.7	563.1
67.5°	299.2	344.0	431.9	500.7	531.1
70°	249.6	302.4	395.2	465.5	495.9
72.5°	203.2	264.0	358.4	423.9	430.3
75°	158.4	225.6	320.0	326.4	315.2
77.5°	118.4	187.2	264.0	235.2	233.6
80°	84.8	150.4	169.6	174.4	176.0
82.5°	56.0	113.6	110.4	113.6	112.0
85°	33.6	56.0	57.6	56.0	52.8
87.5°	16.0	20.8	16.0	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)