

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: P263512

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263512  
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-L83050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3301.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

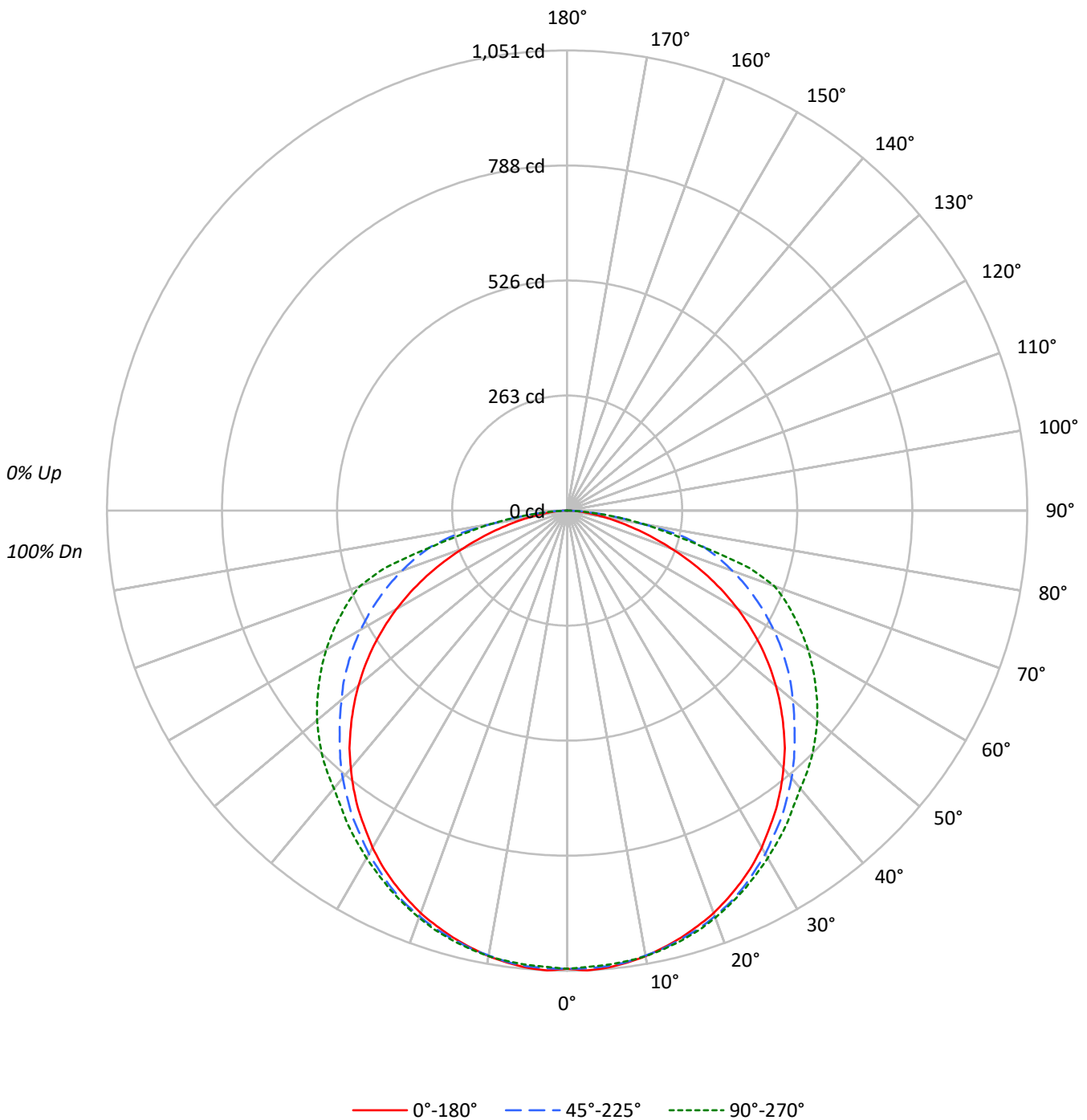
Input Watts (W): 35.640576  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1408	1408	1408
5°	1416	1411	1407
10°	1412	1410	1412
15°	1406	1410	1415
20°	1401	1412	1417
25°	1392	1411	1418
30°	1381	1406	1424
35°	1367	1404	1436
40°	1350	1401	1456
45°	1329	1398	1506
50°	1303	1408	1561
55°	1266	1433	1624
60°	1211	1465	1710
65°	1128	1511	1821
70°	997	1579	1982
75°	836	1690	1664
80°	667	1334	1385
85°	526	903	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.3	3.0
10°-20°	285.6	8.7
20°-30°	436.3	13.2
30°-40°	533.4	16.2
40°-50°	570.9	17.3
50°-60°	547.6	16.6
60°-70°	462.4	14.0
70°-80°	295.5	9.0
80°-90°	69.9	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°	821.2	24.9
0°-40°	1354.6	41.0
0°-60°	2473.2	74.9
0°-90°	3301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3301.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1048	1042	1045	1043	1042	100
15°	1009	1006	1012	1016	1016	285
25°	938	936	951	954	955	432
35°	832	838	855	866	874	520
45°	699	710	734	769	791	539
55°	540	557	611	666	692	481
65°	354	388	474	541	572	349
75°	161	229	325	332	320	173
85°	34	57	58	57	54	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1046.4	1046.4	1046.4	1046.4	1046.4
2.5°	1051.3	1044.8	1046.4	1046.4	1043.2
5°	1048.1	1041.6	1044.8	1043.2	1041.6
7.5°	1041.6	1036.7	1039.9	1039.9	1038.3
10°	1033.4	1028.6	1031.8	1033.4	1033.4
12.5°	1022.1	1018.8	1023.7	1023.7	1025.3
15°	1009.1	1005.8	1012.3	1015.6	1015.6
17.5°	994.4	992.8	1000.9	1002.6	1004.2
20°	978.2	976.6	986.3	986.3	989.6
22.5°	958.7	957.1	970.1	970.1	973.3
25°	937.6	936.0	950.6	953.8	955.4
27.5°	914.8	913.2	927.8	932.7	936.0
30°	888.8	888.8	905.1	911.6	916.5
32.5°	859.6	864.5	879.1	888.8	895.3
35°	832.0	838.5	854.7	866.1	874.2
37.5°	801.1	807.6	825.5	840.1	849.8
40°	768.6	776.7	797.8	814.1	828.7
42.5°	736.1	744.2	767.0	791.3	810.8
45°	698.7	710.1	734.5	768.6	791.3
47.5°	661.3	672.7	703.6	745.8	768.6
50°	622.3	635.3	672.7	721.5	745.8
52.5°	581.7	596.3	643.5	695.5	719.8
55°	539.5	557.3	611.0	666.2	692.2
57.5°	495.6	515.1	578.5	637.0	664.6
60°	450.1	474.5	544.3	606.1	635.3
62.5°	403.0	432.2	510.2	573.6	604.5
65°	354.2	388.4	474.5	541.1	572.0
67.5°	303.9	349.4	438.7	508.6	539.5
70°	253.5	307.1	401.4	472.8	503.7
72.5°	206.4	268.1	364.0	430.6	437.1
75°	160.9	229.1	325.0	331.5	320.1
77.5°	120.2	190.1	268.1	238.9	237.2
80°	86.1	152.7	172.2	177.1	178.7
82.5°	56.9	115.4	112.1	115.4	113.7
85°	34.1	56.9	58.5	56.9	53.6
87.5°	16.2	21.1	16.2	14.6	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)