

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: P263831

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263831  
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-LD5-60-RDP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3285.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 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

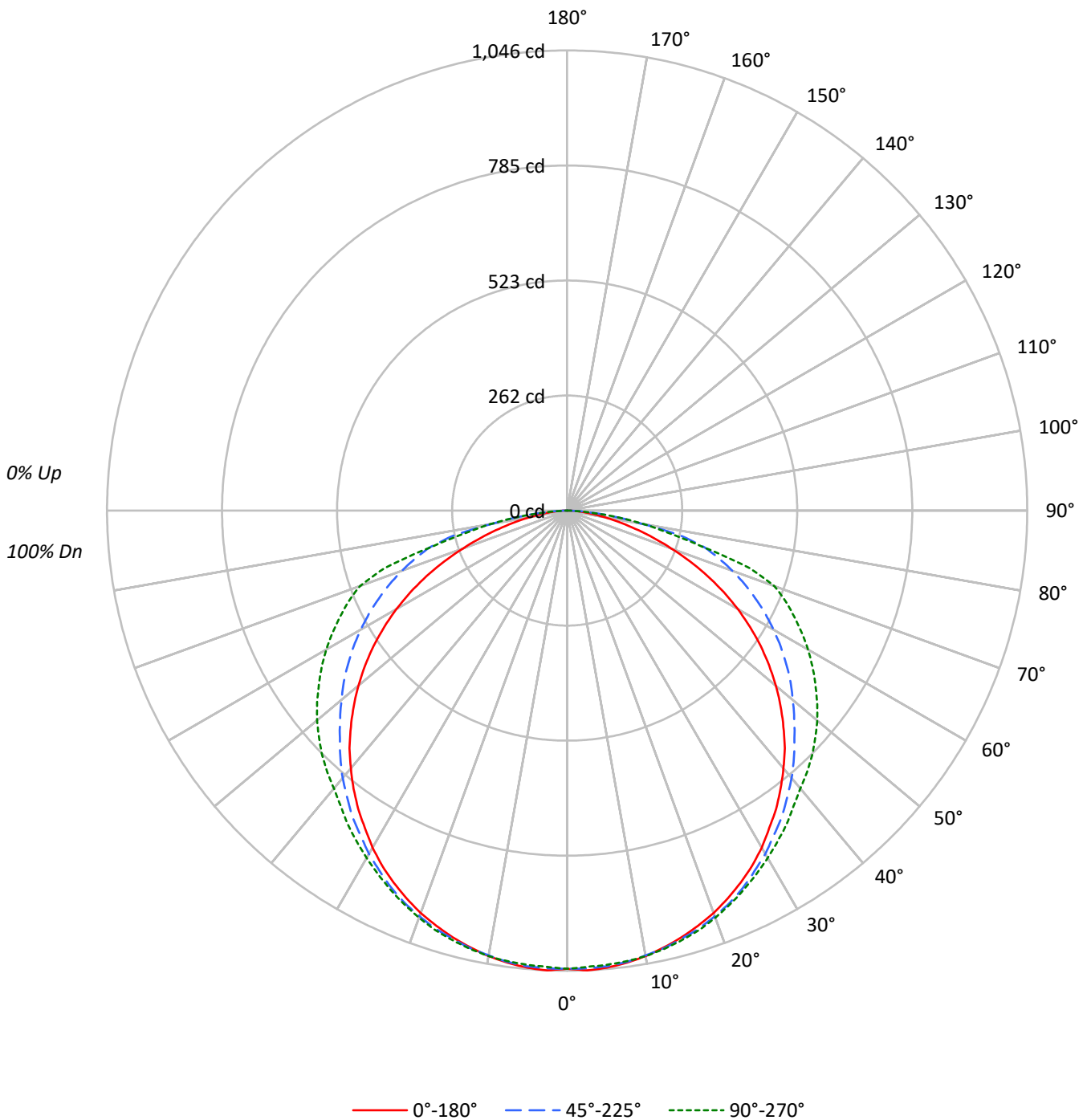
Input Watts (W): 44.175  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	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°	1401	1401	1401
5°	1409	1404	1400
10°	1405	1403	1405
15°	1399	1403	1408
20°	1394	1405	1410
25°	1385	1404	1412
30°	1374	1399	1417
35°	1360	1397	1429
40°	1343	1395	1449
45°	1323	1391	1498
50°	1296	1401	1554
55°	1259	1426	1616
60°	1205	1458	1702
65°	1122	1503	1812
70°	993	1571	1972
75°	832	1681	1656
80°	664	1328	1378
85°	525	898	824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.8	3.0
10°-20°	284.3	8.7
20°-30°	434.2	13.2
30°-40°	530.8	16.2
40°-50°	568.2	17.3
50°-60°	545.0	16.6
60°-70°	460.2	14.0
70°-80°	294.1	9.0
80°-90°	69.6	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°	817.2	24.9
0°-40°	1348.0	41.0
0°-60°	2461.2	74.9
0°-90°	3285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1043	1036	1040	1038	1036	99
15°	1004	1001	1007	1011	1011	284
25°	933	931	946	949	951	430
35°	828	834	851	862	870	518
45°	695	707	731	765	788	536
55°	537	555	608	663	689	479
65°	352	386	472	538	569	348
75°	160	228	323	330	319	172
85°	34	57	58	57	53	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1041.4	1041.4	1041.4	1041.4	1041.4
2.5°	1046.2	1039.8	1041.4	1041.4	1038.1
5°	1043.0	1036.5	1039.8	1038.1	1036.5
7.5°	1036.5	1031.7	1034.9	1034.9	1033.3
10°	1028.4	1023.6	1026.8	1028.4	1028.4
12.5°	1017.1	1013.9	1018.7	1018.7	1020.4
15°	1004.2	1000.9	1007.4	1010.6	1010.6
17.5°	989.6	988.0	996.1	997.7	999.3
20°	973.5	971.8	981.5	981.5	984.8
22.5°	954.1	952.4	965.4	965.4	968.6
25°	933.0	931.4	946.0	949.2	950.8
27.5°	910.4	908.8	923.3	928.2	931.4
30°	884.5	884.5	900.7	907.2	912.0
32.5°	855.4	860.3	874.8	884.5	891.0
35°	827.9	834.4	850.6	861.9	870.0
37.5°	797.2	803.7	821.5	836.0	845.7
40°	764.9	772.9	794.0	810.1	824.7
42.5°	732.5	740.6	763.2	787.5	806.9
45°	695.3	706.6	730.9	764.9	787.5
47.5°	658.1	669.5	700.2	742.2	764.9
50°	619.3	632.3	669.5	718.0	742.2
52.5°	578.9	593.5	640.3	692.1	716.3
55°	536.9	554.6	608.0	663.0	688.9
57.5°	493.2	512.6	575.7	633.9	661.4
60°	447.9	472.2	541.7	603.2	632.3
62.5°	401.0	430.1	507.7	570.8	601.5
65°	352.5	386.5	472.2	538.5	569.2
67.5°	302.4	347.7	436.6	506.1	536.9
70°	252.3	305.6	399.4	470.6	501.3
72.5°	205.4	266.8	362.2	428.5	435.0
75°	160.1	228.0	323.4	329.9	318.6
77.5°	119.7	189.2	266.8	237.7	236.1
80°	85.7	152.0	171.4	176.3	177.9
82.5°	56.6	114.8	111.6	114.8	113.2
85°	34.0	56.6	58.2	56.6	53.4
87.5°	16.2	21.0	16.2	14.6	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)