

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: P263769

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263769  
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-LD5-50SE-RDP-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3282.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 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

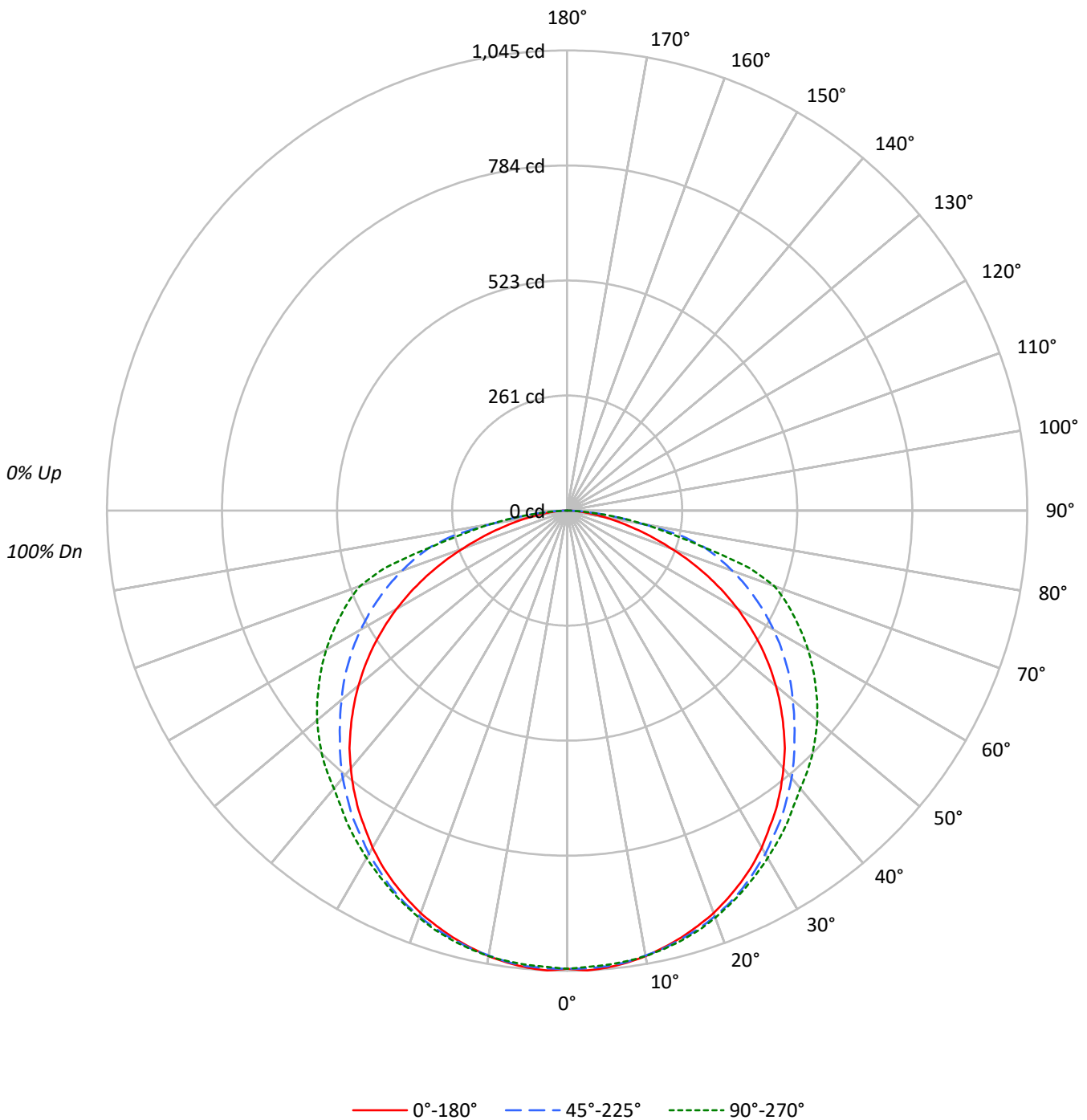
Input Watts (W): 39.432  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1400	1400	1400
5°	1407	1403	1399
10°	1404	1402	1404
15°	1398	1402	1406
20°	1393	1404	1409
25°	1384	1403	1410
30°	1373	1398	1416
35°	1359	1396	1428
40°	1342	1393	1447
45°	1322	1389	1497
50°	1295	1400	1552
55°	1258	1425	1614
60°	1204	1456	1700
65°	1121	1502	1811
70°	991	1570	1970
75°	831	1680	1655
80°	663	1327	1377
85°	523	898	823



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	3.0
10°-20°	284.0	8.7
20°-30°	433.8	13.2
30°-40°	530.3	16.2
40°-50°	567.7	17.3
50°-60°	544.5	16.6
60°-70°	459.7	14.0
70°-80°	293.8	9.0
80°-90°	69.5	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°	816.5	24.9
0°-40°	1346.8	41.0
0°-60°	2458.9	74.9
0°-90°	3282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3282.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1042	1036	1039	1037	1036	99
15°	1003	1000	1006	1010	1010	283
25°	932	931	945	948	950	430
35°	827	834	850	861	869	517
45°	695	706	730	764	787	536
55°	536	554	608	662	688	479
65°	352	386	472	538	569	347
75°	160	228	323	330	318	172
85°	34	56	58	56	53	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1045.3	1038.8	1040.4	1040.4	1037.2
5°	1042.0	1035.6	1038.8	1037.2	1035.6
7.5°	1035.6	1030.7	1034.0	1034.0	1032.3
10°	1027.5	1022.7	1025.9	1027.5	1027.5
12.5°	1016.2	1013.0	1017.8	1017.8	1019.4
15°	1003.3	1000.0	1006.5	1009.7	1009.7
17.5°	988.7	987.1	995.2	996.8	998.4
20°	972.6	971.0	980.6	980.6	983.9
22.5°	953.2	951.6	964.5	964.5	967.7
25°	932.2	930.6	945.1	948.3	949.9
27.5°	909.6	907.9	922.5	927.3	930.6
30°	883.7	883.7	899.9	906.3	911.2
32.5°	854.6	859.5	874.0	883.7	890.2
35°	827.2	833.6	849.8	861.1	869.2
37.5°	796.5	802.9	820.7	835.2	844.9
40°	764.2	772.2	793.2	809.4	823.9
42.5°	731.8	739.9	762.5	786.8	806.2
45°	694.7	706.0	730.2	764.2	786.8
47.5°	657.5	668.8	699.5	741.5	764.2
50°	618.8	631.7	668.8	717.3	741.5
52.5°	578.4	592.9	639.8	691.5	715.7
55°	536.4	554.1	607.5	662.4	688.2
57.5°	492.7	512.1	575.1	633.3	660.8
60°	447.5	471.7	541.2	602.6	631.7
62.5°	400.7	429.7	507.3	570.3	601.0
65°	352.2	386.1	471.7	538.0	568.7
67.5°	302.1	347.3	436.2	505.7	536.4
70°	252.0	305.3	399.0	470.1	500.8
72.5°	205.2	266.6	361.9	428.1	434.6
75°	159.9	227.8	323.1	329.6	318.3
77.5°	119.6	189.0	266.6	237.5	235.9
80°	85.6	151.9	171.2	176.1	177.7
82.5°	56.5	114.7	111.5	114.7	113.1
85°	33.9	56.5	58.2	56.5	53.3
87.5°	16.2	21.0	16.2	14.5	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)