

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: P263767

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263767  
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-LD5-45SE-RDP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3292.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 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

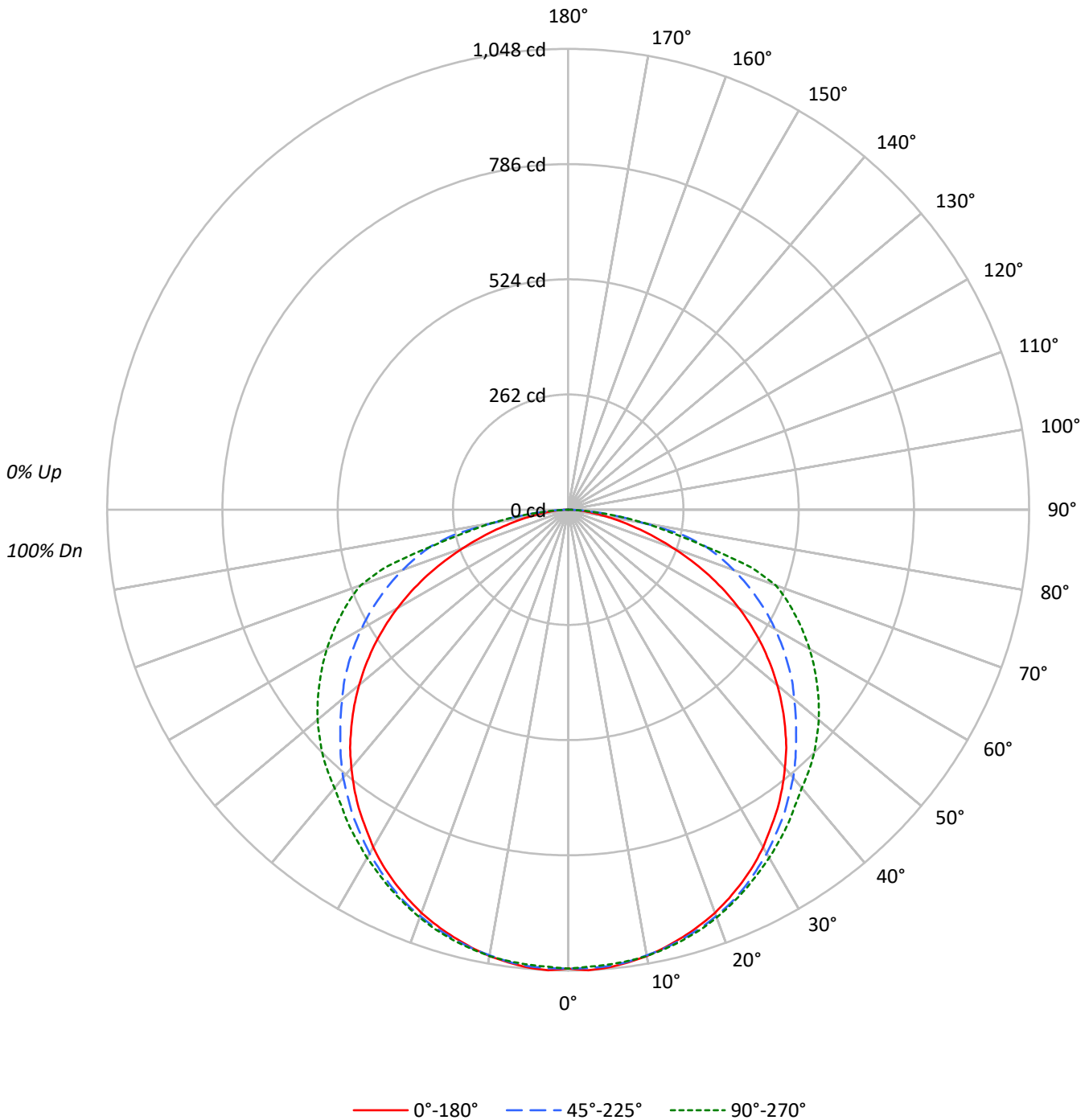
Input Watts (W): 36.549  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1404	1404	1404
5°	1412	1407	1403
10°	1408	1406	1408
15°	1402	1406	1411
20°	1397	1408	1413
25°	1388	1407	1415
30°	1377	1402	1420
35°	1363	1400	1432
40°	1346	1398	1451
45°	1326	1394	1502
50°	1299	1404	1557
55°	1262	1429	1619
60°	1208	1461	1705
65°	1125	1507	1816
70°	995	1575	1976
75°	834	1685	1659
80°	666	1331	1382
85°	525	900	826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.0	3.0
10°-20°	284.9	8.7
20°-30°	435.1	13.2
30°-40°	532.0	16.2
40°-50°	569.4	17.3
50°-60°	546.1	16.6
60°-70°	461.1	14.0
70°-80°	294.7	9.0
80°-90°	69.7	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°	818.9	24.9
0°-40°	1350.9	41.0
0°-60°	2466.5	74.9
0°-90°	3292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1045	1039	1042	1040	1039	99
15°	1006	1003	1010	1013	1013	284
25°	935	933	948	951	953	431
35°	830	836	852	864	872	519
45°	697	708	732	766	789	537
55°	538	556	609	664	690	480
65°	353	387	473	540	570	348
75°	160	228	324	331	319	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°	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1048.5	1042.0	1043.6	1043.6	1040.4
5°	1045.2	1038.7	1042.0	1040.4	1038.7
7.5°	1038.7	1033.9	1037.1	1037.1	1035.5
10°	1030.6	1025.8	1029.0	1030.6	1030.6
12.5°	1019.3	1016.0	1020.9	1020.9	1022.5
15°	1006.3	1003.1	1009.6	1012.8	1012.8
17.5°	991.7	990.1	998.2	999.8	1001.5
20°	975.5	973.9	983.6	983.6	986.9
22.5°	956.1	954.5	967.4	967.4	970.7
25°	935.0	933.4	948.0	951.2	952.8
27.5°	912.3	910.7	925.3	930.2	933.4
30°	886.4	886.4	902.6	909.1	914.0
32.5°	857.2	862.1	876.7	886.4	892.9
35°	829.7	836.2	852.4	863.7	871.8
37.5°	798.9	805.4	823.2	837.8	847.5
40°	766.5	774.6	795.7	811.9	826.4
42.5°	734.1	742.2	764.9	789.2	808.6
45°	696.8	708.2	732.5	766.5	789.2
47.5°	659.5	670.9	701.7	743.8	766.5
50°	620.6	633.6	670.9	719.5	743.8
52.5°	580.1	594.7	641.7	693.6	717.9
55°	538.0	555.8	609.3	664.4	690.3
57.5°	494.2	513.7	576.9	635.2	662.8
60°	448.9	473.2	542.9	604.4	633.6
62.5°	401.9	431.0	508.8	572.0	602.8
65°	353.3	387.3	473.2	539.6	570.4
67.5°	303.0	348.4	437.5	507.2	538.0
70°	252.8	306.3	400.3	471.6	502.3
72.5°	205.8	267.4	363.0	429.4	435.9
75°	160.4	228.5	324.1	330.6	319.2
77.5°	119.9	189.6	267.4	238.2	236.6
80°	85.9	152.3	171.8	176.6	178.3
82.5°	56.7	115.1	111.8	115.1	113.4
85°	34.0	56.7	58.3	56.7	53.5
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)