

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: P263680

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263680  
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-L82765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3412.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

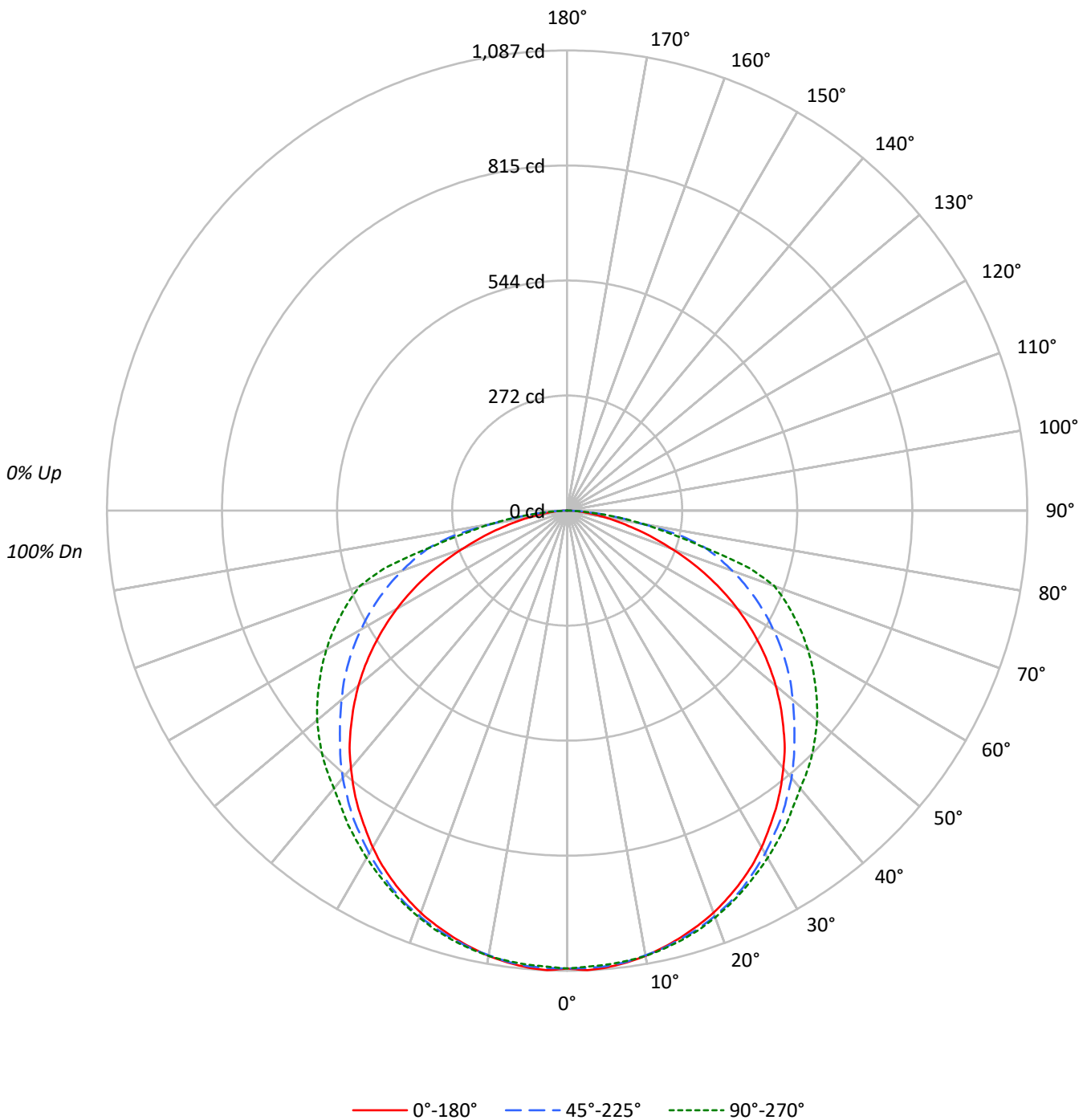
Input Watts (W): 35.898  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1455	1455	1455
5°	1463	1459	1454
10°	1459	1457	1459
15°	1453	1458	1462
20°	1448	1460	1464
25°	1439	1459	1466
30°	1427	1453	1472
35°	1412	1451	1484
40°	1395	1449	1505
45°	1374	1445	1556
50°	1347	1455	1614
55°	1308	1481	1678
60°	1252	1514	1767
65°	1166	1561	1882
70°	1031	1632	2048
75°	865	1746	1720
80°	690	1379	1432
85°	545	934	855



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.6	3.0
10°-20°	295.2	8.7
20°-30°	451.0	13.2
30°-40°	551.3	16.2
40°-50°	590.1	17.3
50°-60°	566.1	16.6
60°-70°	478.0	14.0
70°-80°	305.5	9.0
80°-90°	72.2	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°	848.8	24.9
0°-40°	1400.1	41.0
0°-60°	2556.3	74.9
0°-90°	3412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1083	1077	1080	1078	1077	103
15°	1043	1040	1046	1050	1050	294
25°	969	967	982	986	988	447
35°	860	867	883	895	904	538
45°	722	734	759	794	818	557
55°	558	576	632	689	716	498
65°	366	401	490	559	591	361
75°	166	237	336	343	331	179
85°	35	59	60	59	55	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1081.6	1081.6	1081.6	1081.6	1081.6
2.5°	1086.7	1080.0	1081.6	1081.6	1078.3
5°	1083.3	1076.6	1080.0	1078.3	1076.6
7.5°	1076.6	1071.6	1074.9	1074.9	1073.2
10°	1068.2	1063.2	1066.5	1068.2	1068.2
12.5°	1056.4	1053.1	1058.1	1058.1	1059.8
15°	1043.0	1039.6	1046.4	1049.7	1049.7
17.5°	1027.9	1026.2	1034.6	1036.3	1038.0
20°	1011.1	1009.4	1019.5	1019.5	1022.8
22.5°	990.9	989.3	1002.7	1002.7	1006.1
25°	969.1	967.4	982.5	985.9	987.6
27.5°	945.6	943.9	959.0	964.1	967.4
30°	918.7	918.7	935.5	942.2	947.3
32.5°	888.5	893.5	908.6	918.7	925.4
35°	859.9	866.6	883.4	895.2	903.6
37.5°	828.0	834.7	853.2	868.3	878.4
40°	794.4	802.8	824.7	841.5	856.6
42.5°	760.8	769.2	792.7	817.9	838.1
45°	722.2	734.0	759.2	794.4	817.9
47.5°	683.6	695.3	727.2	770.9	794.4
50°	643.3	656.7	695.3	745.7	770.9
52.5°	601.3	616.4	665.1	718.8	744.0
55°	557.6	576.1	631.5	688.6	715.5
57.5°	512.3	532.4	597.9	658.4	686.9
60°	465.2	490.4	562.7	626.5	656.7
62.5°	416.5	446.8	527.4	592.9	624.8
65°	366.1	401.4	490.4	559.3	591.2
67.5°	314.1	361.1	453.5	525.7	557.6
70°	262.0	317.4	414.8	488.8	520.7
72.5°	213.3	277.1	376.2	445.1	451.8
75°	166.3	236.8	335.9	342.6	330.9
77.5°	124.3	196.5	277.1	246.9	245.2
80°	89.0	157.9	178.0	183.1	184.8
82.5°	58.8	119.2	115.9	119.2	117.6
85°	35.3	58.8	60.5	58.8	55.4
87.5°	16.8	21.8	16.8	15.1	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)