

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: P263413

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3417.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

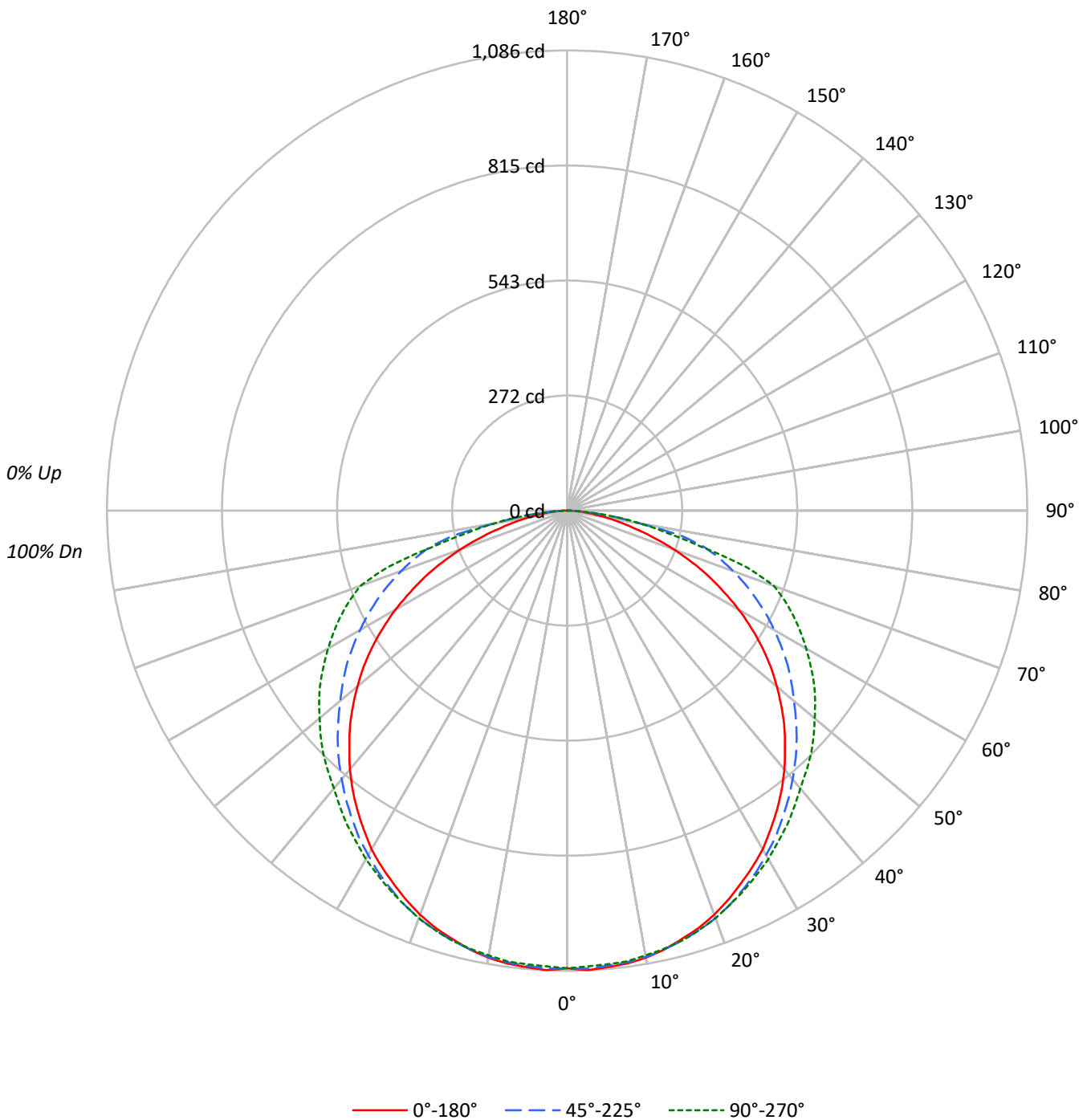
Input Watts (W): 44.361  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1453	1453	1453
5°	1461	1457	1452
10°	1464	1461	1457
15°	1458	1463	1463
20°	1453	1466	1466
25°	1441	1462	1467
30°	1434	1459	1475
35°	1418	1455	1487
40°	1401	1454	1503
45°	1380	1458	1548
50°	1352	1463	1596
55°	1317	1491	1669
60°	1259	1520	1753
65°	1180	1568	1877
70°	1055	1638	2041
75°	872	1752	1688
80°	711	1354	1368
85°	573	898	844



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.6	3.0
10°-20°	296.0	8.7
20°-30°	452.4	13.2
30°-40°	553.3	16.2
40°-50°	592.1	17.3
50°-60°	567.0	16.6
60°-70°	479.6	14.0
70°-80°	304.0	8.9
80°-90°	69.9	2.0
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°	851.0	24.9
0°-40°	1404.4	41.1
0°-60°	2563.4	75.0
0°-90°	3417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1082	1077	1078	1077	1075	103
15°	1047	1045	1050	1050	1050	296
25°	971	971	985	988	988	448
35°	863	868	886	898	905	540
45°	725	738	766	798	814	559
55°	561	579	635	688	711	501
65°	371	406	492	560	590	365
75°	168	236	337	335	325	182
85°	37	56	58	53	55	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1080.2	1080.2	1080.2	1080.2	1080.2
2.5°	1085.5	1080.2	1081.9	1080.2	1076.6
5°	1081.9	1076.6	1078.4	1076.6	1074.9
7.5°	1078.4	1073.1	1074.9	1073.1	1073.1
10°	1071.4	1066.1	1069.6	1067.8	1066.1
12.5°	1060.8	1057.2	1060.8	1059.0	1059.0
15°	1046.6	1044.9	1050.2	1050.2	1050.2
17.5°	1032.5	1030.8	1037.8	1037.8	1037.8
20°	1014.9	1013.1	1023.7	1023.7	1023.7
22.5°	993.7	991.9	1006.0	1006.0	1006.0
25°	970.7	970.7	984.9	988.4	988.4
27.5°	947.8	947.8	963.7	969.0	969.0
30°	923.1	923.1	939.0	946.0	949.6
32.5°	893.1	896.6	914.3	923.1	926.6
35°	863.1	868.4	886.0	898.4	905.4
37.5°	831.3	836.6	857.8	871.9	880.7
40°	797.8	804.8	827.8	845.4	856.0
42.5°	760.7	771.3	797.8	820.7	834.8
45°	725.4	737.8	766.0	797.8	813.7
47.5°	686.6	700.7	732.5	773.1	789.0
50°	646.0	660.1	698.9	744.8	762.5
52.5°	605.4	621.3	667.2	716.6	737.8
55°	561.3	578.9	635.4	688.3	711.3
57.5°	515.4	536.6	600.1	656.6	681.3
60°	467.7	494.2	564.8	624.8	651.3
62.5°	418.3	450.1	529.5	593.0	621.3
65°	370.6	405.9	492.4	559.5	589.5
67.5°	319.5	363.6	455.4	527.7	556.0
70°	268.3	319.5	416.5	490.7	518.9
72.5°	217.1	278.9	377.7	444.8	444.8
75°	167.7	236.5	337.1	335.3	324.8
77.5°	127.1	197.7	277.1	236.5	238.3
80°	91.8	158.8	174.7	174.7	176.5
82.5°	61.8	121.8	113.0	111.2	114.7
85°	37.1	56.5	58.2	52.9	54.7
87.5°	17.6	19.4	15.9	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)