

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: P263417

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263417  
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-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3748.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

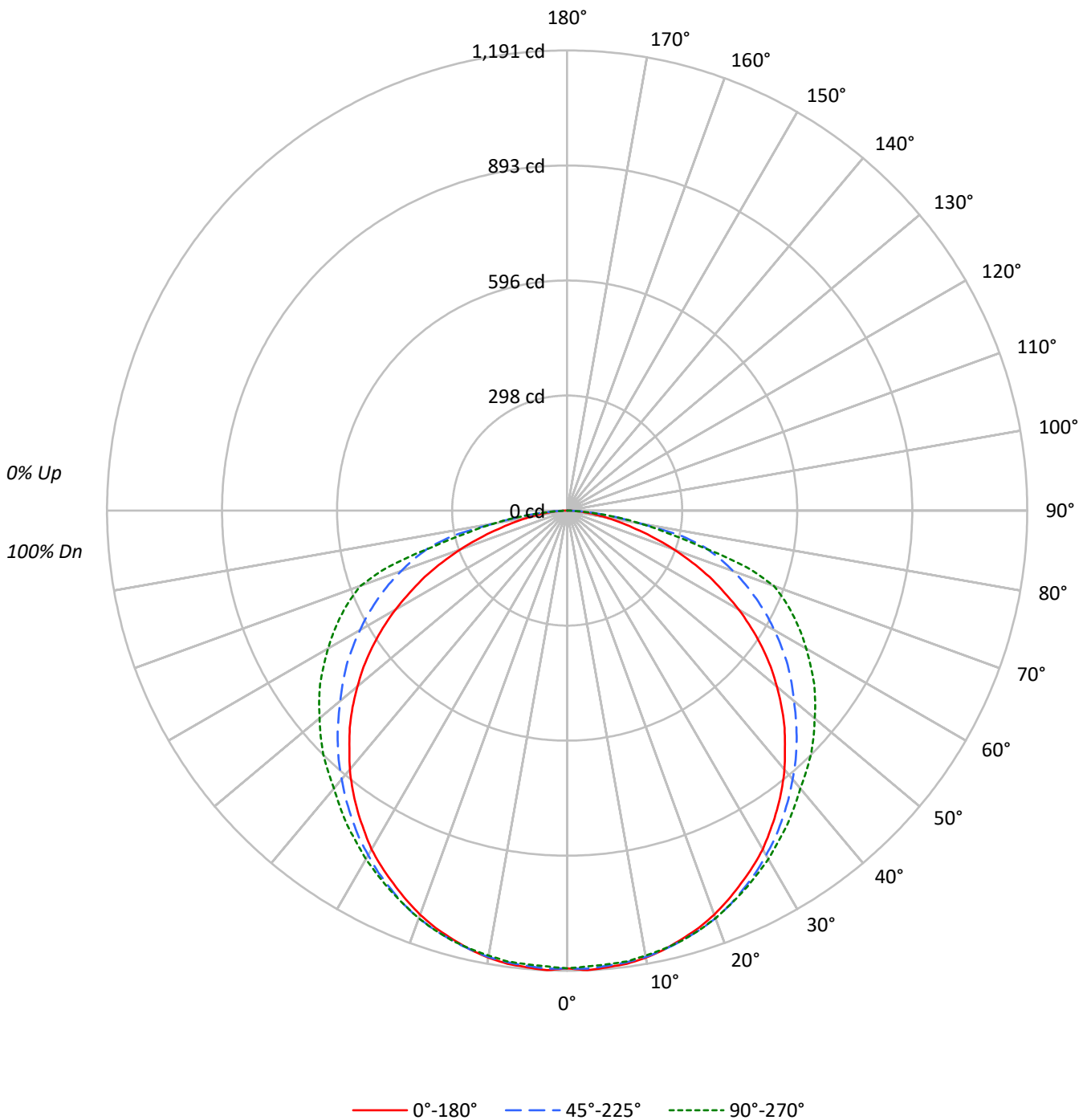
Input Watts (W): 45.477  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1594	1594	1594
5°	1603	1598	1592
10°	1605	1603	1598
15°	1599	1605	1605
20°	1594	1608	1608
25°	1581	1604	1609
30°	1573	1600	1618
35°	1555	1596	1631
40°	1537	1595	1649
45°	1514	1599	1698
50°	1483	1605	1751
55°	1444	1635	1830
60°	1380	1667	1922
65°	1294	1720	2059
70°	1158	1797	2239
75°	956	1922	1852
80°	780	1485	1500
85°	628	986	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	3.0
10°-20°	324.7	8.7
20°-30°	496.3	13.2
30°-40°	606.9	16.2
40°-50°	649.4	17.3
50°-60°	621.9	16.6
60°-70°	526.1	14.0
70°-80°	333.5	8.9
80°-90°	76.7	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°	933.5	24.9
0°-40°	1540.4	41.1
0°-60°	2811.7	75.0
0°-90°	3748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3748.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1187	1181	1183	1181	1179	113
15°	1148	1146	1152	1152	1152	324
25°	1065	1065	1080	1084	1084	491
35°	947	952	972	985	993	592
45°	796	809	840	875	892	613
55°	616	635	697	755	780	549
65°	407	445	540	614	647	400
75°	184	259	370	368	356	200
85°	41	62	64	58	60	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1190.6	1184.8	1186.7	1184.8	1180.9
5°	1186.7	1180.9	1182.9	1180.9	1179.0
7.5°	1182.9	1177.1	1179.0	1177.1	1177.1
10°	1175.1	1169.3	1173.2	1171.3	1169.3
12.5°	1163.5	1159.6	1163.5	1161.6	1161.6
15°	1148.0	1146.1	1151.9	1151.9	1151.9
17.5°	1132.5	1130.6	1138.3	1138.3	1138.3
20°	1113.2	1111.2	1122.9	1122.9	1122.9
22.5°	1090.0	1088.0	1103.5	1103.5	1103.5
25°	1064.8	1064.8	1080.3	1084.1	1084.1
27.5°	1039.6	1039.6	1057.0	1062.8	1062.8
30°	1012.5	1012.5	1029.9	1037.7	1041.6
32.5°	979.6	983.5	1002.8	1012.5	1016.4
35°	946.7	952.5	971.9	985.4	993.2
37.5°	911.8	917.6	940.9	956.4	966.0
40°	875.1	882.8	908.0	927.3	938.9
42.5°	834.4	846.0	875.1	900.2	915.7
45°	795.7	809.2	840.2	875.1	892.5
47.5°	753.1	768.6	803.4	848.0	865.4
50°	708.6	724.1	766.6	817.0	836.3
52.5°	664.0	681.5	731.8	786.0	809.2
55°	615.6	635.0	696.9	755.0	780.2
57.5°	565.3	588.5	658.2	720.2	747.3
60°	513.0	542.1	619.5	685.3	714.4
62.5°	458.8	493.7	580.8	650.5	681.5
65°	406.6	445.3	540.1	613.7	646.6
67.5°	350.4	398.8	499.5	578.9	609.8
70°	294.3	350.4	456.9	538.2	569.2
72.5°	238.1	305.9	414.3	487.9	487.9
75°	183.9	259.4	369.8	367.8	356.2
77.5°	139.4	216.8	303.9	259.4	261.4
80°	100.7	174.2	191.7	191.7	193.6
82.5°	67.8	133.6	123.9	122.0	125.8
85°	40.7	62.0	63.9	58.1	60.0
87.5°	19.4	21.3	17.4	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)