

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: P263262

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263262  
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-LD5-50-SQP-UNV-L82765-W2A1-U-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3380.0 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

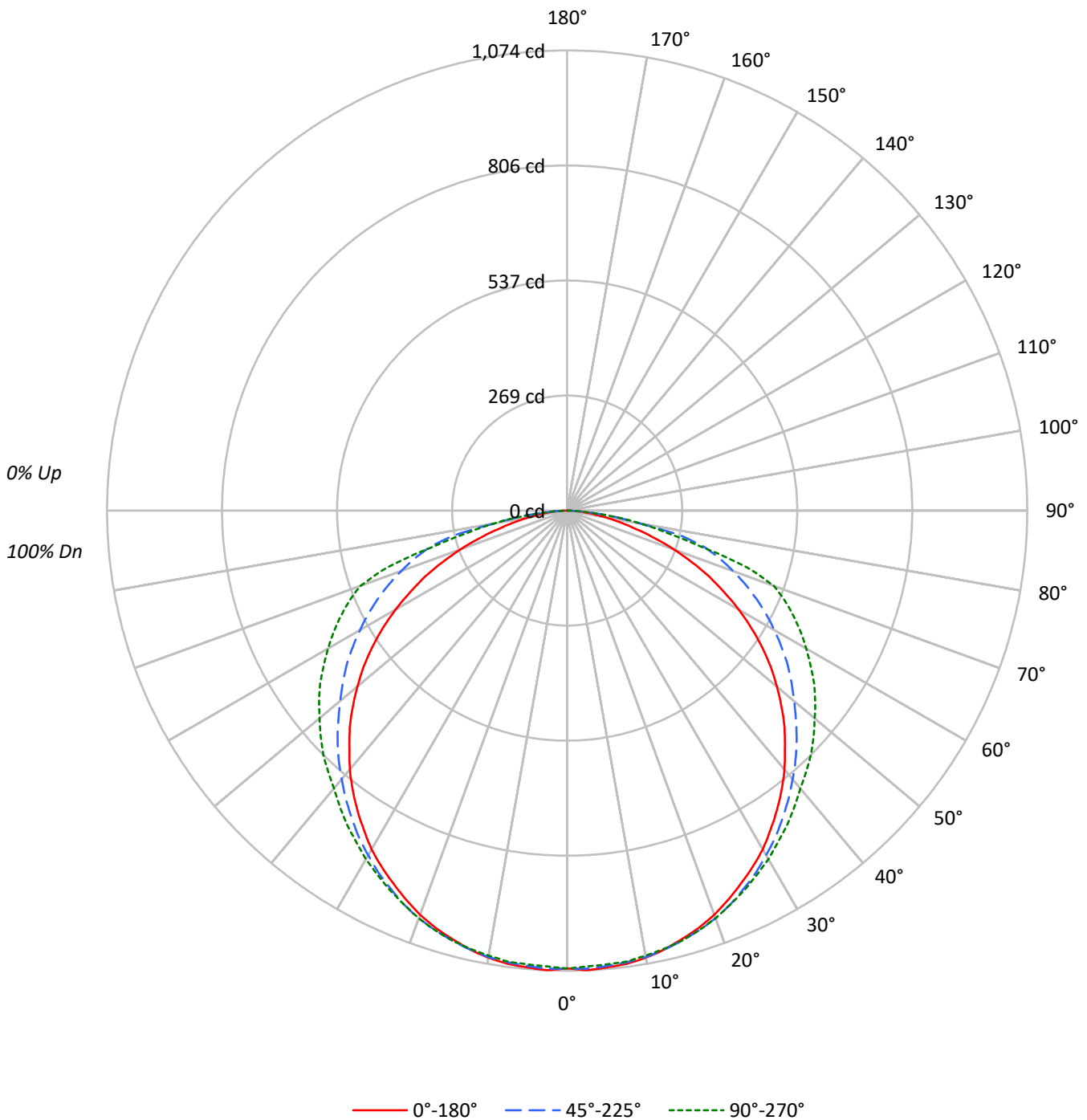
Input Watts (W): 36.363  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1438	1438	1438
5°	1445	1441	1436
10°	1448	1445	1441
15°	1442	1447	1447
20°	1437	1450	1450
25°	1425	1446	1451
30°	1419	1443	1459
35°	1402	1440	1471
40°	1386	1438	1487
45°	1365	1442	1532
50°	1338	1447	1579
55°	1302	1474	1650
60°	1245	1503	1734
65°	1167	1551	1856
70°	1044	1621	2019
75°	862	1734	1670
80°	704	1339	1353
85°	567	889	835



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.5	3.0
10°-20°	292.8	8.7
20°-30°	447.5	13.2
30°-40°	547.4	16.2
40°-50°	585.7	17.3
50°-60°	560.8	16.6
60°-70°	474.4	14.0
70°-80°	300.7	8.9
80°-90°	69.2	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°	841.8	24.9
0°-40°	1389.2	41.1
0°-60°	2535.7	75.0
0°-90°	3380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3380.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1070	1065	1067	1065	1063	102
15°	1035	1034	1039	1039	1039	292
25°	960	960	974	978	978	443
35°	854	859	876	889	896	534
45°	718	730	758	789	805	553
55°	555	573	628	681	704	495
65°	367	402	487	553	583	361
75°	166	234	334	332	321	180
85°	37	56	58	52	54	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1068.5	1068.5	1068.5	1068.5	1068.5
2.5°	1073.7	1068.5	1070.2	1068.5	1065.0
5°	1070.2	1065.0	1066.7	1065.0	1063.2
7.5°	1066.7	1061.5	1063.2	1061.5	1061.5
10°	1059.8	1054.5	1058.0	1056.3	1054.5
12.5°	1049.3	1045.8	1049.3	1047.5	1047.5
15°	1035.3	1033.6	1038.8	1038.8	1038.8
17.5°	1021.3	1019.6	1026.6	1026.6	1026.6
20°	1003.9	1002.1	1012.6	1012.6	1012.6
22.5°	982.9	981.2	995.2	995.2	995.2
25°	960.2	960.2	974.2	977.7	977.7
27.5°	937.5	937.5	953.3	958.5	958.5
30°	913.1	913.1	928.8	935.8	939.3
32.5°	883.4	886.9	904.4	913.1	916.6
35°	853.7	859.0	876.4	888.7	895.6
37.5°	822.3	827.5	848.5	862.5	871.2
40°	789.1	796.1	818.8	836.3	846.8
42.5°	752.5	763.0	789.1	811.8	825.8
45°	717.6	729.8	757.7	789.1	804.9
47.5°	679.1	693.1	724.5	764.7	780.4
50°	639.0	653.0	691.4	736.8	754.2
52.5°	598.8	614.6	659.9	708.8	729.8
55°	555.2	572.7	628.5	680.9	703.6
57.5°	509.8	530.7	593.6	649.5	673.9
60°	462.7	488.8	558.7	618.0	644.2
62.5°	413.8	445.2	523.8	586.6	614.6
65°	366.6	401.6	487.1	553.4	583.1
67.5°	316.0	359.7	450.4	522.0	550.0
70°	265.4	316.0	412.0	485.4	513.3
72.5°	214.7	275.8	373.6	440.0	440.0
75°	165.9	233.9	333.5	331.7	321.2
77.5°	125.7	195.5	274.1	233.9	235.7
80°	90.8	157.1	172.8	172.8	174.6
82.5°	61.1	120.5	111.7	110.0	113.5
85°	36.7	55.9	57.6	52.4	54.1
87.5°	17.5	19.2	15.7	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)