

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: P263400

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263400  
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-L92765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3137.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

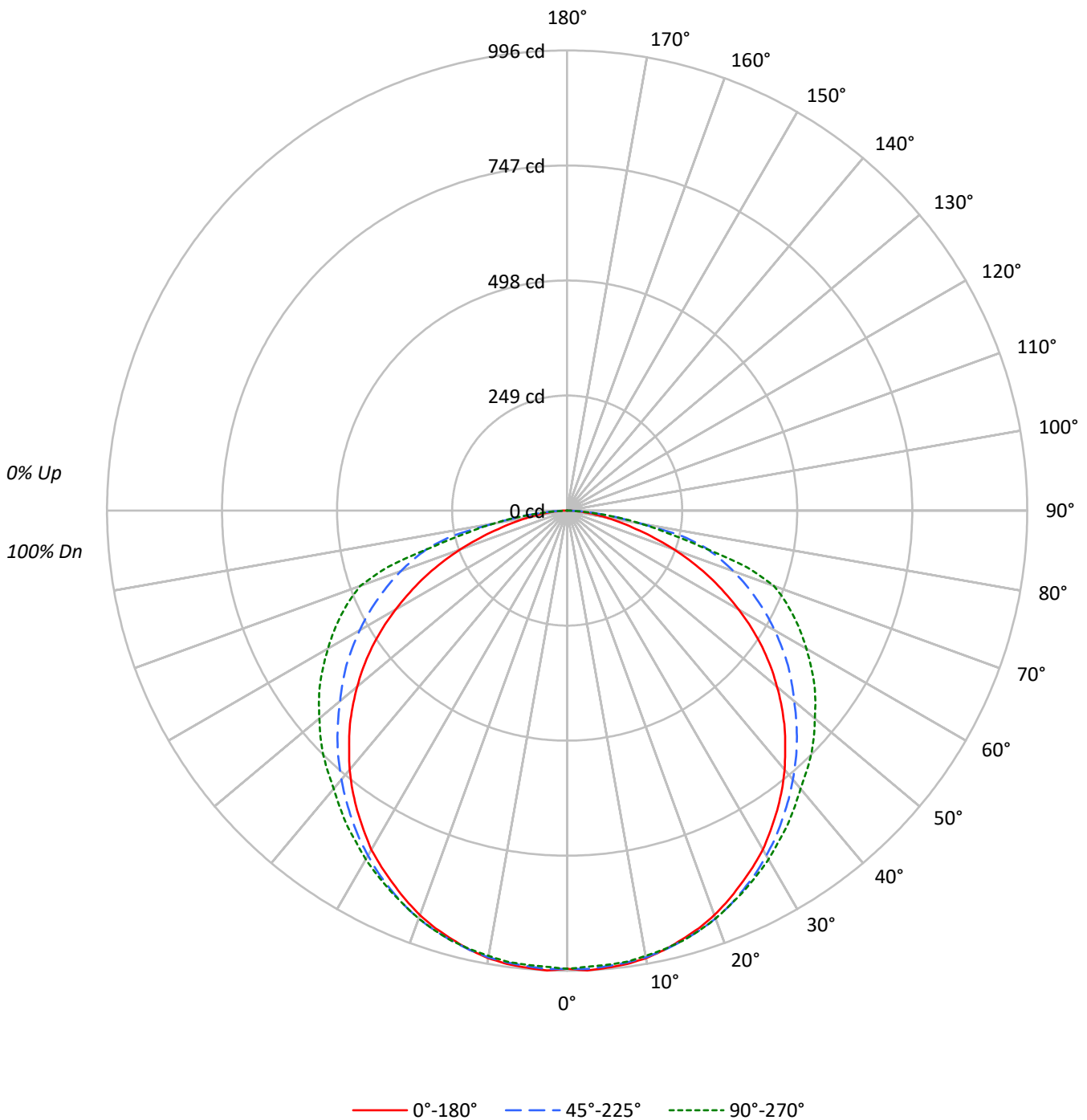
Input Watts (W): 36.828  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1334	1334	1334
5°	1342	1337	1333
10°	1344	1342	1337
15°	1338	1343	1343
20°	1334	1346	1346
25°	1323	1342	1347
30°	1317	1339	1354
35°	1302	1336	1365
40°	1286	1335	1380
45°	1267	1338	1421
50°	1241	1343	1465
55°	1209	1368	1532
60°	1156	1395	1609
65°	1083	1439	1723
70°	969	1504	1874
75°	800	1609	1550
80°	653	1243	1255
85°	525	826	775



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	3.0
10°-20°	271.8	8.7
20°-30°	415.4	13.2
30°-40°	508.0	16.2
40°-50°	543.6	17.3
50°-60°	520.5	16.6
60°-70°	440.3	14.0
70°-80°	279.1	8.9
80°-90°	64.2	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°	781.3	24.9
0°-40°	1289.3	41.1
0°-60°	2353.4	75.0
0°-90°	3137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	993	988	990	988	987	95
15°	961	959	964	964	964	271
25°	891	891	904	907	907	411
35°	792	797	813	825	831	496
45°	666	677	703	732	747	513
55°	515	532	583	632	653	460
65°	340	373	452	514	541	335
75°	154	217	310	308	298	167
85°	34	52	54	49	50	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	991.7	991.7	991.7	991.7	991.7
2.5°	996.5	991.7	993.3	991.7	988.4
5°	993.3	988.4	990.0	988.4	986.8
7.5°	990.0	985.2	986.8	985.2	985.2
10°	983.6	978.7	981.9	980.3	978.7
12.5°	973.8	970.6	973.8	972.2	972.2
15°	960.9	959.3	964.1	964.1	964.1
17.5°	947.9	946.3	952.8	952.8	952.8
20°	931.7	930.1	939.8	939.8	939.8
22.5°	912.3	910.6	923.6	923.6	923.6
25°	891.2	891.2	904.2	907.4	907.4
27.5°	870.1	870.1	884.7	889.6	889.6
30°	847.5	847.5	862.0	868.5	871.8
32.5°	819.9	823.1	839.3	847.5	850.7
35°	792.4	797.2	813.4	824.8	831.2
37.5°	763.2	768.1	787.5	800.5	808.6
40°	732.4	738.9	760.0	776.2	785.9
42.5°	698.4	708.1	732.4	753.5	766.4
45°	666.0	677.3	703.2	732.4	747.0
47.5°	630.3	643.3	672.5	709.7	724.3
50°	593.1	606.0	641.7	683.8	700.0
52.5°	555.8	570.4	612.5	657.9	677.3
55°	515.3	531.5	583.3	631.9	653.0
57.5°	473.1	492.6	550.9	602.8	625.5
60°	429.4	453.7	518.5	573.6	597.9
62.5°	384.0	413.2	486.1	544.4	570.4
65°	340.3	372.7	452.1	513.7	541.2
67.5°	293.3	333.8	418.1	484.5	510.4
70°	246.3	293.3	382.4	450.5	476.4
72.5°	199.3	256.0	346.8	408.3	408.3
75°	153.9	217.1	309.5	307.9	298.1
77.5°	116.7	181.5	254.4	217.1	218.7
80°	84.3	145.8	160.4	160.4	162.0
82.5°	56.7	111.8	103.7	102.1	105.3
85°	34.0	51.9	53.5	48.6	50.2
87.5°	16.2	17.8	14.6	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)