

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: P263486

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263486
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-LD5-50SE-SQP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2925.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

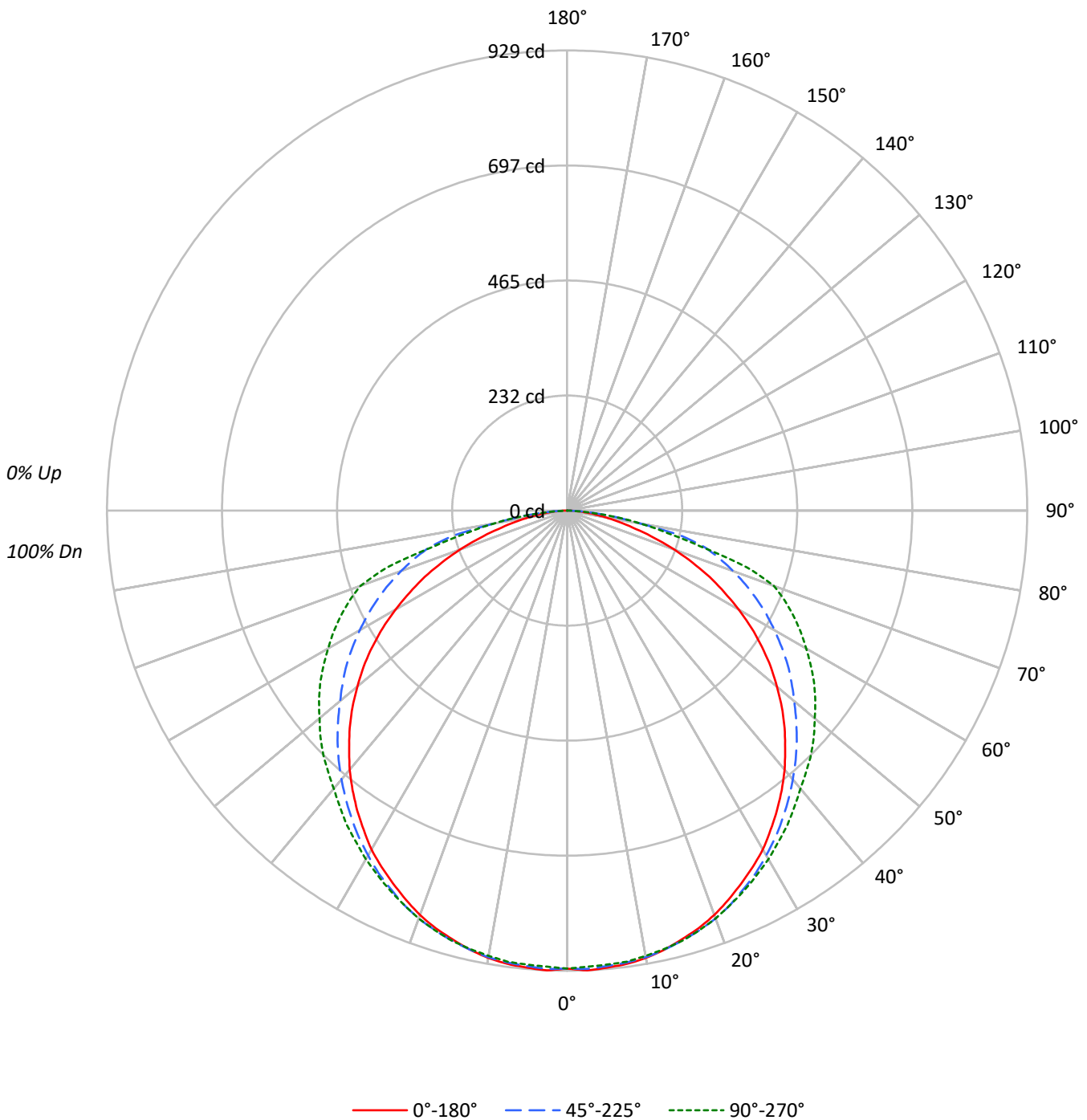
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1244	1244	1244
5°	1251	1247	1243
10°	1253	1251	1247
15°	1248	1252	1252
20°	1244	1255	1255
25°	1234	1252	1256
30°	1228	1249	1263
35°	1214	1246	1273
40°	1199	1245	1287
45°	1182	1248	1325
50°	1158	1252	1366
55°	1127	1276	1428
60°	1077	1301	1500
65°	1010	1342	1606
70°	904	1403	1747
75°	746	1500	1445
80°	609	1159	1171
85°	489	770	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.0
10°-20°	253.4	8.7
20°-30°	387.3	13.2
30°-40°	473.7	16.2
40°-50°	506.8	17.3
50°-60°	485.3	16.6
60°-70°	410.5	14.0
70°-80°	260.2	8.9
80°-90°	59.9	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°	728.5	24.9
0°-40°	1202.2	41.1
0°-60°	2194.3	75.0
0°-90°	2925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	926	922	923	922	920	88
15°	896	894	899	899	899	253
25°	831	831	843	846	846	383
35°	739	743	758	769	775	462
45°	621	632	656	683	696	478
55°	480	496	544	589	609	429
65°	317	348	422	479	505	313
75°	144	202	289	287	278	156
85°	32	48	50	45	47	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.6	924.6	924.6	924.6	924.6
2.5°	929.2	924.6	926.2	924.6	921.6
5°	926.2	921.6	923.1	921.6	920.1
7.5°	923.1	918.6	920.1	918.6	918.6
10°	917.1	912.6	915.6	914.1	912.6
12.5°	908.0	905.0	908.0	906.5	906.5
15°	895.9	894.4	899.0	899.0	899.0
17.5°	883.9	882.3	888.4	888.4	888.4
20°	868.7	867.2	876.3	876.3	876.3
22.5°	850.6	849.1	861.2	861.2	861.2
25°	831.0	831.0	843.1	846.1	846.1
27.5°	811.3	811.3	824.9	829.5	829.5
30°	790.2	790.2	803.8	809.8	812.8
32.5°	764.5	767.5	782.6	790.2	793.2
35°	738.8	743.3	758.5	769.0	775.1
37.5°	711.6	716.1	734.3	746.4	753.9
40°	682.9	689.0	708.6	723.7	732.8
42.5°	651.2	660.2	682.9	702.6	714.6
45°	621.0	631.5	655.7	682.9	696.5
47.5°	587.7	599.8	627.0	661.8	675.4
50°	553.0	565.1	598.3	637.6	652.7
52.5°	518.2	531.8	571.1	613.4	631.5
55°	480.5	495.6	543.9	589.2	608.9
57.5°	441.2	459.3	513.7	562.0	583.2
60°	400.4	423.0	483.5	534.8	557.5
62.5°	358.1	385.3	453.3	507.6	531.8
65°	317.3	347.5	421.5	478.9	504.6
67.5°	273.5	311.2	389.8	451.7	475.9
70°	229.7	273.5	356.6	420.0	444.2
72.5°	185.8	238.7	323.3	380.7	380.7
75°	143.5	202.5	288.6	287.1	278.0
77.5°	108.8	169.2	237.2	202.5	204.0
80°	78.6	136.0	149.6	149.6	151.1
82.5°	52.9	104.2	96.7	95.2	98.2
85°	31.7	48.3	49.9	45.3	46.8
87.5°	15.1	16.6	13.6	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)