

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: P263397

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263397
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

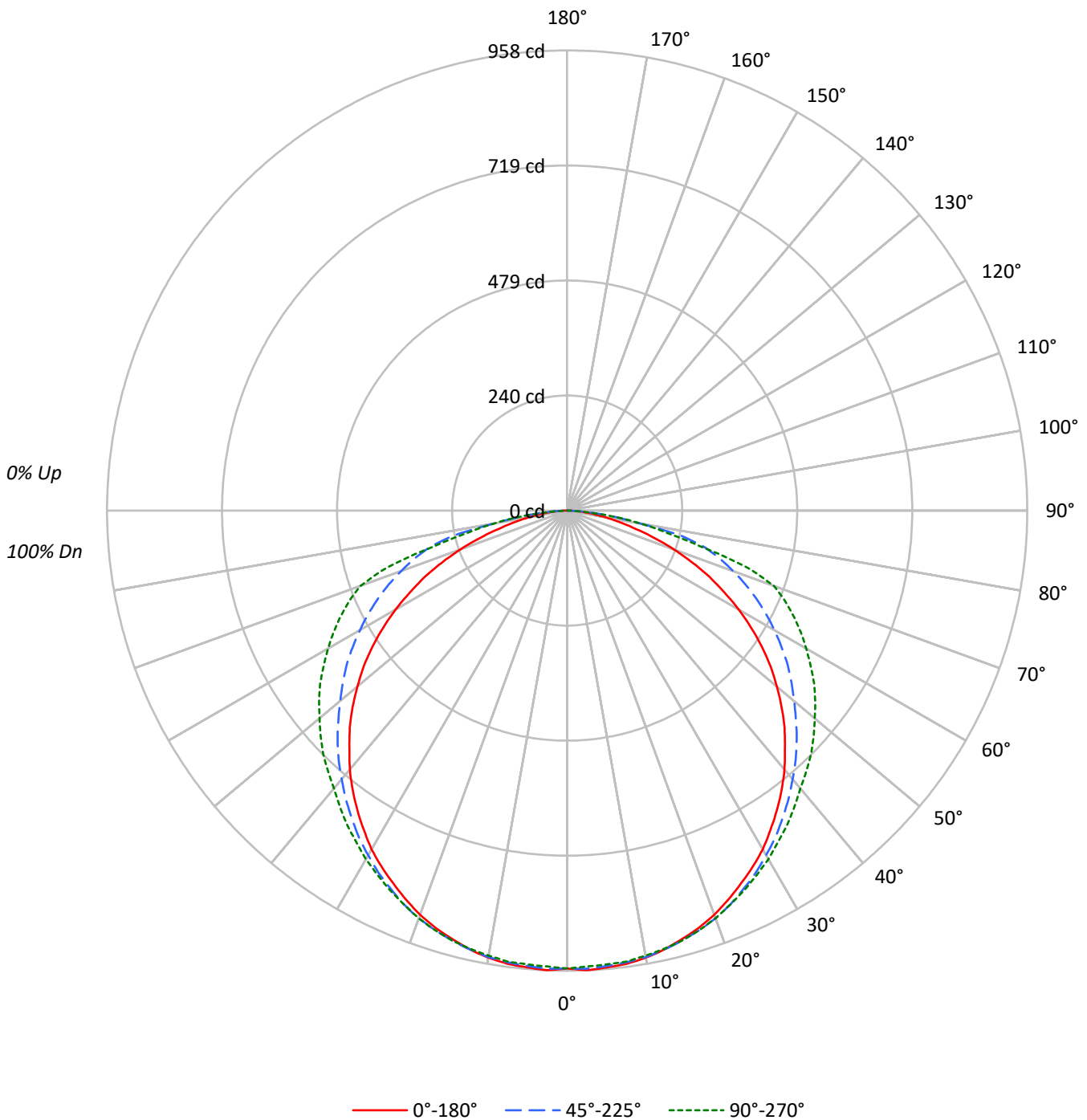
Input Watts (W): 36.363
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1282	1282	1282
5°	1289	1285	1281
10°	1292	1289	1285
15°	1286	1291	1291
20°	1282	1293	1293
25°	1272	1290	1295
30°	1265	1287	1302
35°	1251	1284	1312
40°	1236	1283	1327
45°	1218	1286	1366
50°	1193	1291	1408
55°	1162	1315	1472
60°	1111	1341	1547
65°	1041	1383	1656
70°	931	1446	1801
75°	769	1547	1490
80°	628	1195	1206
85°	505	794	746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.0
10°-20°	261.2	8.7
20°-30°	399.2	13.2
30°-40°	488.2	16.2
40°-50°	522.4	17.3
50°-60°	500.3	16.6
60°-70°	423.2	14.0
70°-80°	268.3	8.9
80°-90°	61.7	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°	750.9	24.9
0°-40°	1239.2	41.1
0°-60°	2261.9	75.0
0°-90°	3015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	955	950	952	950	948	91
15°	924	922	927	927	927	261
25°	856	856	869	872	872	395
35°	762	766	782	793	799	476
45°	640	651	676	704	718	493
55°	495	511	561	607	628	442
65°	327	358	434	494	520	322
75°	148	209	298	296	287	161
85°	33	50	51	47	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.1	953.1	953.1	953.1	953.1
2.5°	957.8	953.1	954.7	953.1	950.0
5°	954.7	950.0	951.5	950.0	948.4
7.5°	951.5	946.9	948.4	946.9	946.9
10°	945.3	940.6	943.8	942.2	940.6
12.5°	936.0	932.9	936.0	934.4	934.4
15°	923.5	922.0	926.6	926.6	926.6
17.5°	911.0	909.5	915.7	915.7	915.7
20°	895.5	893.9	903.3	903.3	903.3
22.5°	876.8	875.2	887.7	887.7	887.7
25°	856.5	856.5	869.0	872.1	872.1
27.5°	836.3	836.3	850.3	855.0	855.0
30°	814.5	814.5	828.5	834.7	837.9
32.5°	788.0	791.1	806.7	814.5	817.6
35°	761.5	766.2	781.8	792.7	798.9
37.5°	733.5	738.2	756.9	769.3	777.1
40°	703.9	710.2	730.4	746.0	755.3
42.5°	671.2	680.6	703.9	724.2	736.6
45°	640.1	651.0	675.9	703.9	717.9
47.5°	605.8	618.3	646.3	682.1	696.1
50°	570.0	582.4	616.7	657.2	672.8
52.5°	534.2	548.2	588.7	632.3	651.0
55°	495.2	510.8	560.6	607.4	627.6
57.5°	454.7	473.4	529.5	579.3	601.1
60°	412.7	436.1	498.4	551.3	574.7
62.5°	369.1	397.1	467.2	523.3	548.2
65°	327.0	358.2	434.5	493.7	520.2
67.5°	281.9	320.8	401.8	465.6	490.6
70°	236.7	281.9	367.5	432.9	457.9
72.5°	191.6	246.1	333.3	392.5	392.5
75°	147.9	208.7	297.5	295.9	286.6
77.5°	112.1	174.4	244.5	208.7	210.2
80°	81.0	140.2	154.2	154.2	155.7
82.5°	54.5	107.5	99.7	98.1	101.2
85°	32.7	49.8	51.4	46.7	48.3
87.5°	15.6	17.1	14.0	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)