

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: P263169

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263169
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3054.4 lumens
Efficiency: N/A
Efficacy: 83.4 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

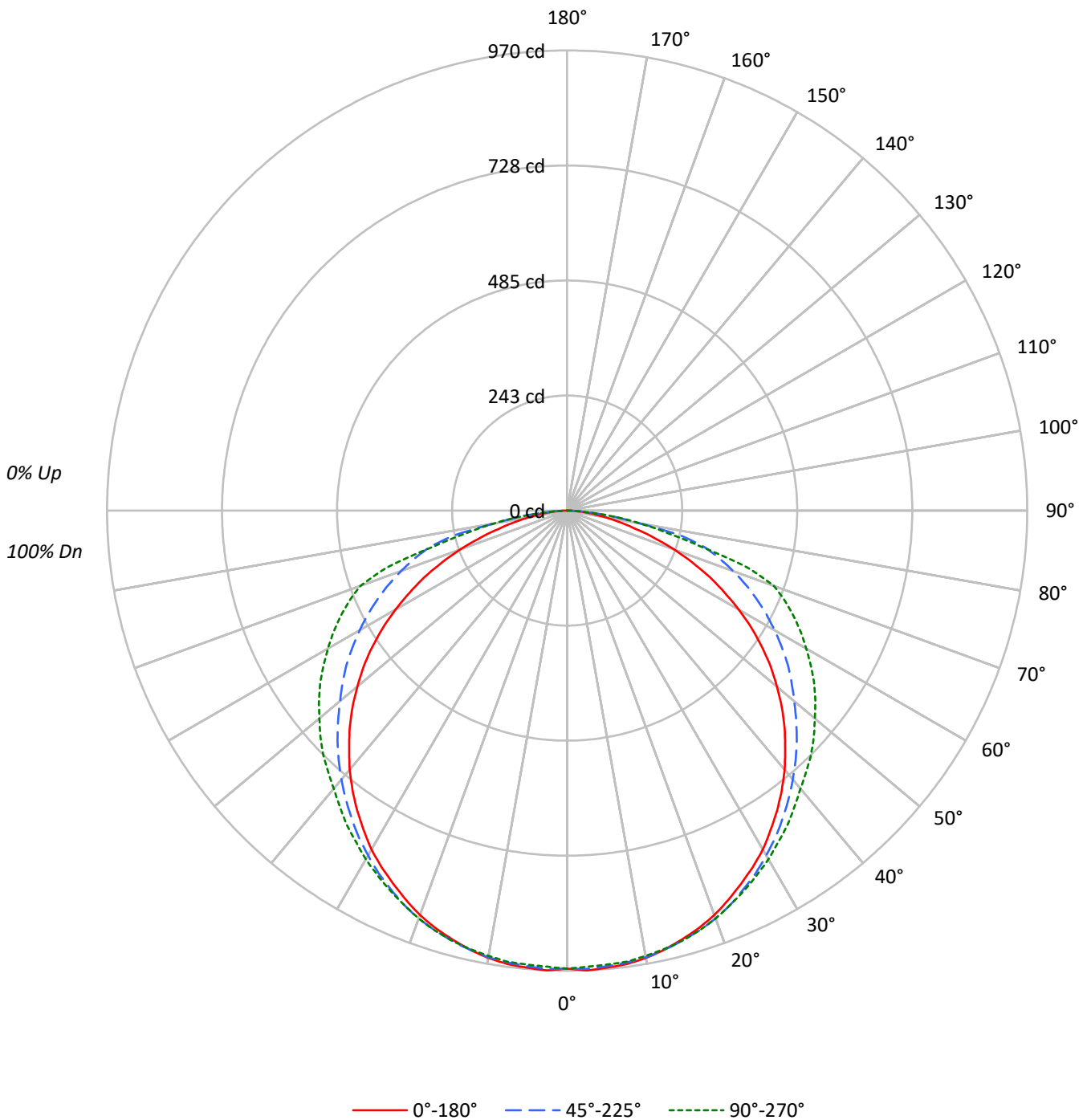
Input Watts (W): 36.640512
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1299	1299	1299
5°	1306	1302	1298
10°	1308	1306	1302
15°	1303	1308	1308
20°	1299	1310	1310
25°	1288	1307	1312
30°	1282	1304	1319
35°	1267	1301	1329
40°	1252	1300	1344
45°	1234	1303	1384
50°	1209	1308	1427
55°	1177	1332	1491
60°	1125	1359	1567
65°	1055	1401	1677
70°	943	1465	1825
75°	779	1566	1509
80°	635	1210	1223
85°	511	804	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	3.0
10°-20°	264.6	8.7
20°-30°	404.4	13.2
30°-40°	494.6	16.2
40°-50°	529.2	17.3
50°-60°	506.8	16.6
60°-70°	428.7	14.0
70°-80°	271.8	8.9
80°-90°	62.5	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°	760.7	24.9
0°-40°	1255.4	41.1
0°-60°	2291.4	75.0
0°-90°	3054.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3054.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	962	964	962	961	92
15°	936	934	939	939	939	264
25°	868	868	880	884	884	400
35°	772	776	792	803	809	483
45°	648	660	685	713	727	500
55°	502	518	568	615	636	447
65°	331	363	440	500	527	326
75°	150	211	301	300	290	163
85°	33	50	52	47	49	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.5	965.5	965.5	965.5	965.5
2.5°	970.3	965.5	967.1	965.5	962.4
5°	967.1	962.4	964.0	962.4	960.8
7.5°	964.0	959.2	960.8	959.2	959.2
10°	957.7	952.9	956.1	954.5	952.9
12.5°	948.2	945.0	948.2	946.6	946.6
15°	935.6	934.0	938.7	938.7	938.7
17.5°	922.9	921.4	927.7	927.7	927.7
20°	907.2	905.6	915.1	915.1	915.1
22.5°	888.2	886.7	899.3	899.3	899.3
25°	867.7	867.7	880.4	883.5	883.5
27.5°	847.2	847.2	861.4	866.2	866.2
30°	825.1	825.1	839.3	845.6	848.8
32.5°	798.3	801.5	817.2	825.1	828.3
35°	771.5	776.2	792.0	803.0	809.4
37.5°	743.1	747.8	766.8	779.4	787.3
40°	713.1	719.4	739.9	755.7	765.2
42.5°	680.0	689.5	713.1	733.6	746.2
45°	648.4	659.5	684.7	713.1	727.3
47.5°	613.7	626.3	654.7	691.0	705.2
50°	577.4	590.1	624.8	665.8	681.6
52.5°	541.1	555.3	596.4	640.5	659.5
55°	501.7	517.5	568.0	615.3	635.8
57.5°	460.7	479.6	536.4	586.9	609.0
60°	418.1	441.8	504.9	558.5	582.2
62.5°	373.9	402.3	473.3	530.1	555.3
65°	331.3	362.9	440.2	500.1	526.9
67.5°	285.6	325.0	407.0	471.7	497.0
70°	239.8	285.6	372.3	438.6	463.8
72.5°	194.1	249.3	337.6	397.6	397.6
75°	149.9	211.4	301.3	299.8	290.3
77.5°	113.6	176.7	247.7	211.4	213.0
80°	82.0	142.0	156.2	156.2	157.8
82.5°	55.2	108.9	101.0	99.4	102.5
85°	33.1	50.5	52.1	47.3	48.9
87.5°	15.8	17.4	14.2	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)