

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: P263254

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263254
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-LD5-45-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3057.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

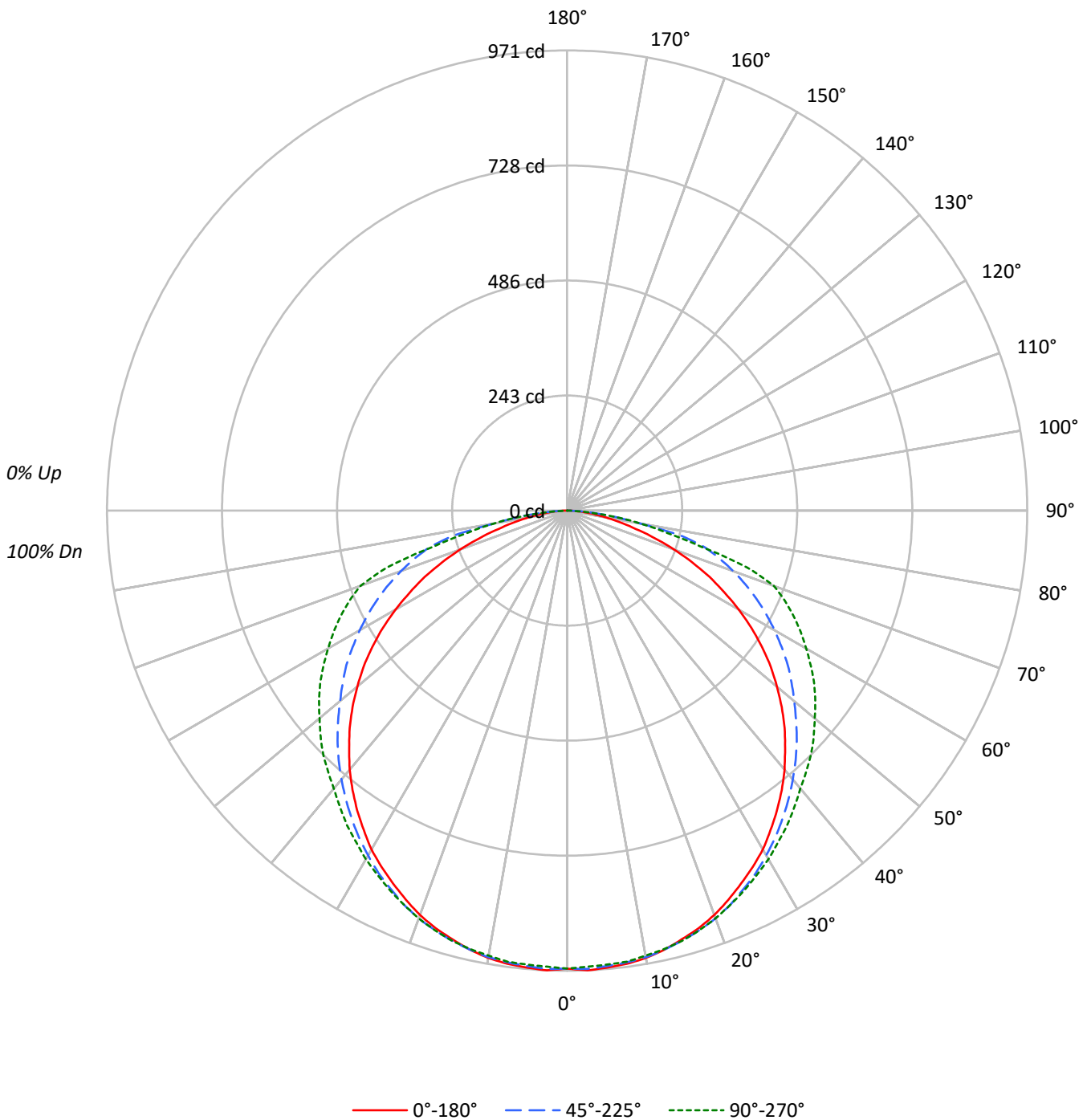
Input Watts (W): 32.178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1300	1300	1300
5°	1307	1303	1299
10°	1310	1307	1303
15°	1304	1309	1309
20°	1300	1311	1311
25°	1289	1308	1313
30°	1283	1305	1320
35°	1268	1302	1330
40°	1254	1301	1345
45°	1235	1304	1385
50°	1210	1309	1428
55°	1178	1334	1493
60°	1126	1360	1568
65°	1056	1403	1679
70°	944	1466	1826
75°	780	1568	1510
80°	636	1211	1223
85°	513	804	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.0
10°-20°	264.8	8.7
20°-30°	404.8	13.2
30°-40°	495.0	16.2
40°-50°	529.7	17.3
50°-60°	507.2	16.6
60°-70°	429.1	14.0
70°-80°	272.0	8.9
80°-90°	62.6	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°	761.4	24.9
0°-40°	1256.4	41.1
0°-60°	2293.4	75.0
0°-90°	3057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	968	963	965	963	962	92
15°	936	935	940	940	940	264
25°	868	868	881	884	884	401
35°	772	777	793	804	810	483
45°	649	660	685	714	728	500
55°	502	518	568	616	636	448
65°	332	363	441	501	527	327
75°	150	212	302	300	290	163
85°	33	50	52	47	49	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.4	966.4	966.4	966.4	966.4
2.5°	971.1	966.4	968.0	966.4	963.2
5°	968.0	963.2	964.8	963.2	961.6
7.5°	964.8	960.1	961.6	960.1	960.1
10°	958.5	953.7	956.9	955.3	953.7
12.5°	949.0	945.8	949.0	947.4	947.4
15°	936.4	934.8	939.5	939.5	939.5
17.5°	923.7	922.2	928.5	928.5	928.5
20°	908.0	906.4	915.8	915.8	915.8
22.5°	889.0	887.4	900.1	900.1	900.1
25°	868.5	868.5	881.1	884.3	884.3
27.5°	847.9	847.9	862.2	866.9	866.9
30°	825.8	825.8	840.1	846.4	849.5
32.5°	799.0	802.2	817.9	825.8	829.0
35°	772.2	776.9	792.7	803.7	810.0
37.5°	743.7	748.5	767.4	780.0	787.9
40°	713.7	720.0	740.6	756.4	765.8
42.5°	680.6	690.0	713.7	734.3	746.9
45°	649.0	660.0	685.3	713.7	727.9
47.5°	614.2	626.9	655.3	691.6	705.8
50°	577.9	590.6	625.3	666.4	682.1
52.5°	541.6	555.8	596.9	641.1	660.0
55°	502.1	517.9	568.5	615.8	636.4
57.5°	461.1	480.0	536.9	587.4	609.5
60°	418.4	442.1	505.3	559.0	582.7
62.5°	374.2	402.7	473.7	530.6	555.8
65°	331.6	363.2	440.6	500.6	527.4
67.5°	285.8	325.3	407.4	472.1	497.4
70°	240.0	285.8	372.7	439.0	464.2
72.5°	194.2	249.5	337.9	397.9	397.9
75°	150.0	211.6	301.6	300.0	290.5
77.5°	113.7	176.9	247.9	211.6	213.2
80°	82.1	142.1	156.3	156.3	157.9
82.5°	55.3	109.0	101.1	99.5	102.6
85°	33.2	50.5	52.1	47.4	49.0
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)