

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: P263508

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3117.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

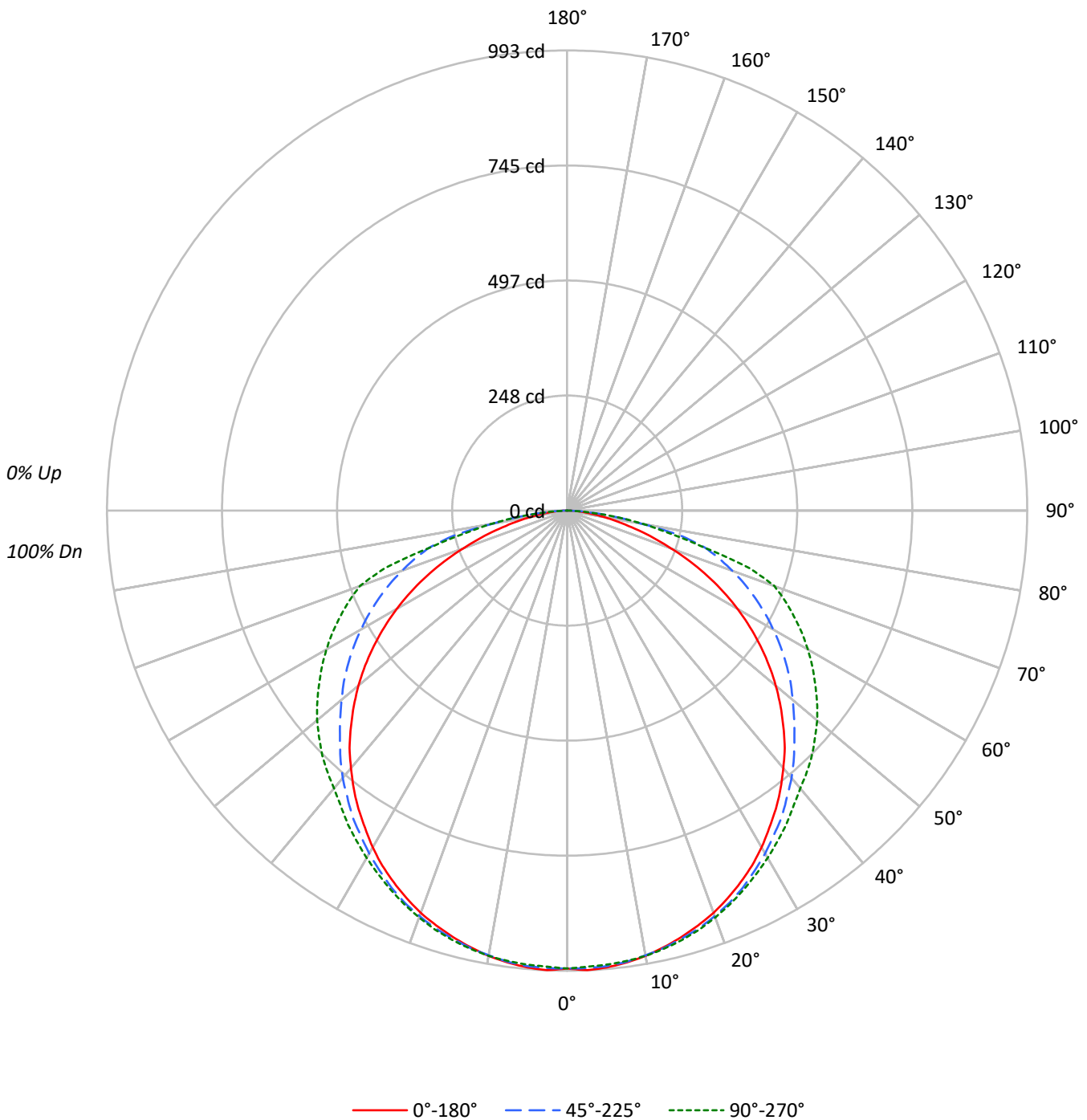
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1329	1329	1329
5°	1337	1333	1328
10°	1333	1331	1333
15°	1327	1332	1336
20°	1323	1333	1338
25°	1314	1333	1339
30°	1304	1328	1345
35°	1290	1326	1356
40°	1275	1323	1374
45°	1255	1320	1422
50°	1230	1330	1474
55°	1195	1353	1533
60°	1144	1383	1614
65°	1065	1426	1720
70°	942	1491	1871
75°	790	1595	1572
80°	630	1260	1308
85°	497	852	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.0
10°-20°	269.7	8.7
20°-30°	412.0	13.2
30°-40°	503.7	16.2
40°-50°	539.1	17.3
50°-60°	517.1	16.6
60°-70°	436.6	14.0
70°-80°	279.0	9.0
80°-90°	66.0	2.1
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°	775.4	24.9
0°-40°	1279.1	41.0
0°-60°	2335.3	74.9
0°-90°	3117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	990	984	987	985	984	94
15°	953	950	956	959	959	269
25°	885	884	898	901	902	408
35°	786	792	807	818	826	491
45°	660	670	694	726	747	509
55°	509	526	577	629	654	455
65°	334	367	448	511	540	330
75°	152	216	307	313	302	164
85°	32	54	55	54	51	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.1	988.1	988.1	988.1	988.1
2.5°	992.7	986.6	988.1	988.1	985.0
5°	989.6	983.5	986.6	985.0	983.5
7.5°	983.5	978.9	982.0	982.0	980.4
10°	975.8	971.2	974.3	975.8	975.8
12.5°	965.1	962.0	966.6	966.6	968.2
15°	952.8	949.8	955.9	959.0	959.0
17.5°	939.0	937.5	945.2	946.7	948.2
20°	923.7	922.1	931.3	931.3	934.4
22.5°	905.3	903.7	916.0	916.0	919.1
25°	885.3	883.8	897.6	900.7	902.2
27.5°	863.8	862.3	876.1	880.7	883.8
30°	839.3	839.3	854.6	860.8	865.4
32.5°	811.7	816.3	830.1	839.3	845.4
35°	785.6	791.7	807.1	817.8	825.5
37.5°	756.4	762.6	779.4	793.3	802.5
40°	725.7	733.4	753.4	768.7	782.5
42.5°	695.1	702.7	724.2	747.2	765.6
45°	659.8	670.5	693.5	725.7	747.2
47.5°	624.5	635.2	664.4	704.3	725.7
50°	587.7	599.9	635.2	681.2	704.3
52.5°	549.3	563.1	607.6	656.7	679.7
55°	509.4	526.3	576.9	629.1	653.6
57.5°	468.0	486.4	546.2	601.5	627.5
60°	425.0	448.0	514.0	572.3	599.9
62.5°	380.5	408.1	481.8	541.6	570.8
65°	334.5	366.7	448.0	510.9	540.1
67.5°	286.9	329.9	414.3	480.2	509.4
70°	239.4	290.0	379.0	446.5	475.6
72.5°	194.9	253.2	343.7	406.6	412.7
75°	151.9	216.3	306.9	313.0	302.3
77.5°	113.5	179.5	253.2	225.5	224.0
80°	81.3	144.2	162.6	167.2	168.8
82.5°	53.7	108.9	105.9	108.9	107.4
85°	32.2	53.7	55.2	53.7	50.6
87.5°	15.3	19.9	15.3	13.8	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)