

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: P263671

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263671
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-L82765-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: 3044.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

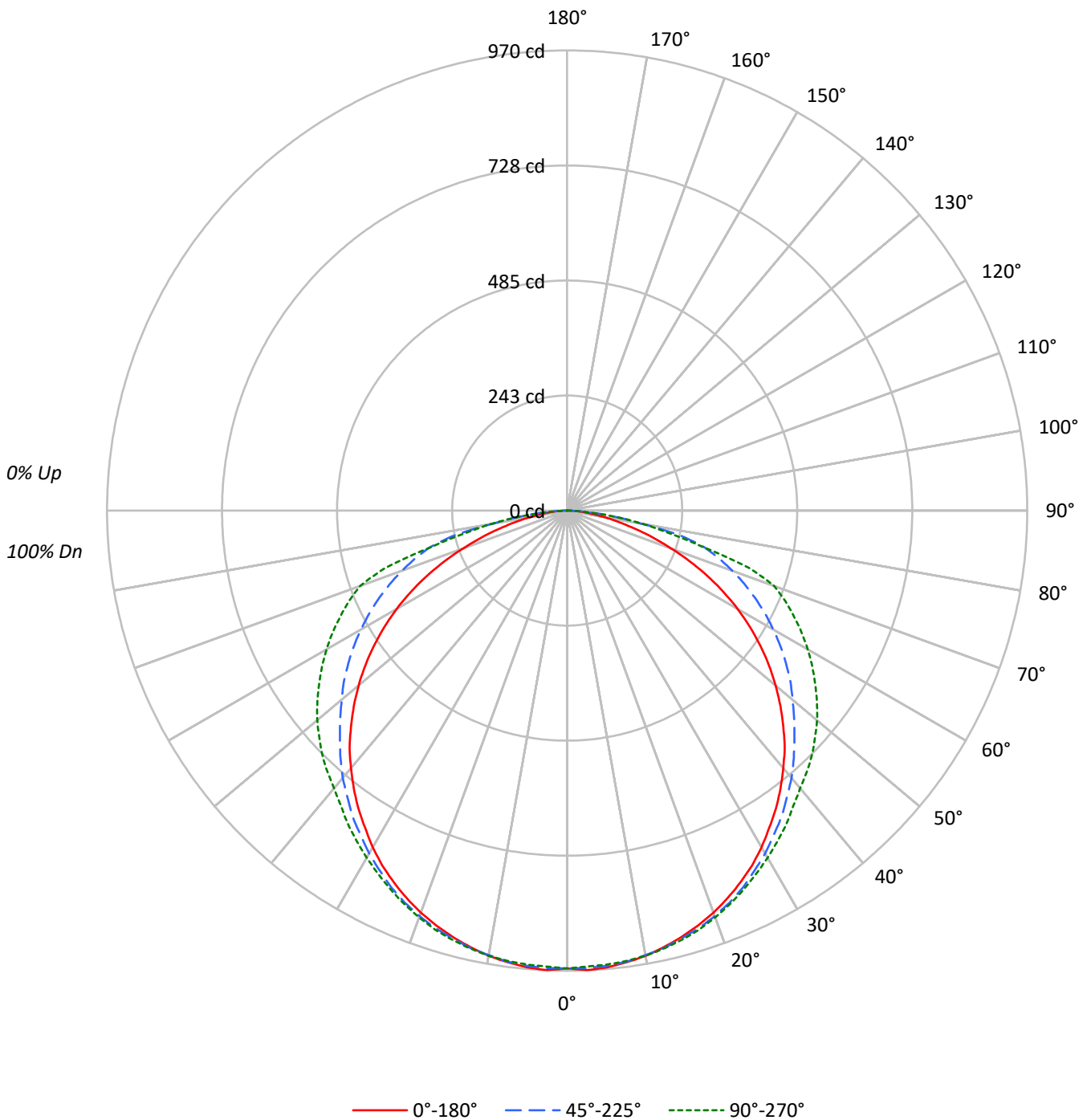
Input Watts (W): 31.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1298	1298	1298
5°	1305	1301	1297
10°	1302	1300	1302
15°	1296	1300	1305
20°	1292	1302	1307
25°	1284	1301	1308
30°	1273	1297	1313
35°	1260	1295	1324
40°	1245	1292	1342
45°	1226	1289	1388
50°	1201	1298	1440
55°	1167	1322	1497
60°	1117	1351	1577
65°	1040	1393	1679
70°	920	1456	1827
75°	771	1558	1535
80°	615	1230	1277
85°	486	832	763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.0
10°-20°	263.4	8.7
20°-30°	402.3	13.2
30°-40°	491.9	16.2
40°-50°	526.5	17.3
50°-60°	505.0	16.6
60°-70°	426.4	14.0
70°-80°	272.5	9.0
80°-90°	64.4	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°	757.3	24.9
0°-40°	1249.1	41.0
0°-60°	2280.6	74.9
0°-90°	3044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	966	960	964	962	960	92
15°	930	928	934	936	936	263
25°	865	863	877	880	881	398
35°	767	773	788	799	806	480
45°	644	655	677	709	730	497
55°	498	514	563	614	638	444
65°	327	358	438	499	527	322
75°	148	211	300	306	295	160
85°	32	52	54	52	49	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.0	965.0	965.0	965.0	965.0
2.5°	969.5	963.5	965.0	965.0	962.0
5°	966.5	960.5	963.5	962.0	960.5
7.5°	960.5	956.0	959.0	959.0	957.5
10°	953.0	948.5	951.5	953.0	953.0
12.5°	942.5	939.5	944.0	944.0	945.5
15°	930.5	927.5	933.5	936.5	936.5
17.5°	917.0	915.5	923.0	924.5	926.0
20°	902.0	900.5	909.5	909.5	912.5
22.5°	884.1	882.6	894.5	894.5	897.5
25°	864.6	863.1	876.6	879.6	881.1
27.5°	843.6	842.1	855.6	860.1	863.1
30°	819.6	819.6	834.6	840.6	845.1
32.5°	792.7	797.2	810.6	819.6	825.6
35°	767.2	773.2	788.2	798.7	806.1
37.5°	738.7	744.7	761.2	774.7	783.7
40°	708.7	716.2	735.7	750.7	764.2
42.5°	678.8	686.3	707.2	729.7	747.7
45°	644.3	654.8	677.3	708.7	729.7
47.5°	609.9	620.3	648.8	687.8	708.7
50°	573.9	585.9	620.3	665.3	687.8
52.5°	536.4	549.9	593.4	641.3	663.8
55°	497.5	514.0	563.4	614.3	638.3
57.5°	457.0	475.0	533.4	587.4	612.8
60°	415.1	437.5	502.0	558.9	585.9
62.5°	371.6	398.6	470.5	528.9	557.4
65°	326.7	358.1	437.5	499.0	527.4
67.5°	280.2	322.2	404.6	469.0	497.5
70°	233.8	283.2	370.1	436.0	464.5
72.5°	190.3	247.2	335.6	397.1	403.1
75°	148.3	211.3	299.7	305.7	295.2
77.5°	110.9	175.3	247.2	220.3	218.8
80°	79.4	140.9	158.8	163.3	164.8
82.5°	52.4	106.4	103.4	106.4	104.9
85°	31.5	52.4	53.9	52.4	49.4
87.5°	15.0	19.5	15.0	13.5	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)