

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: P263764

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263764
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-LD5-45SE-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

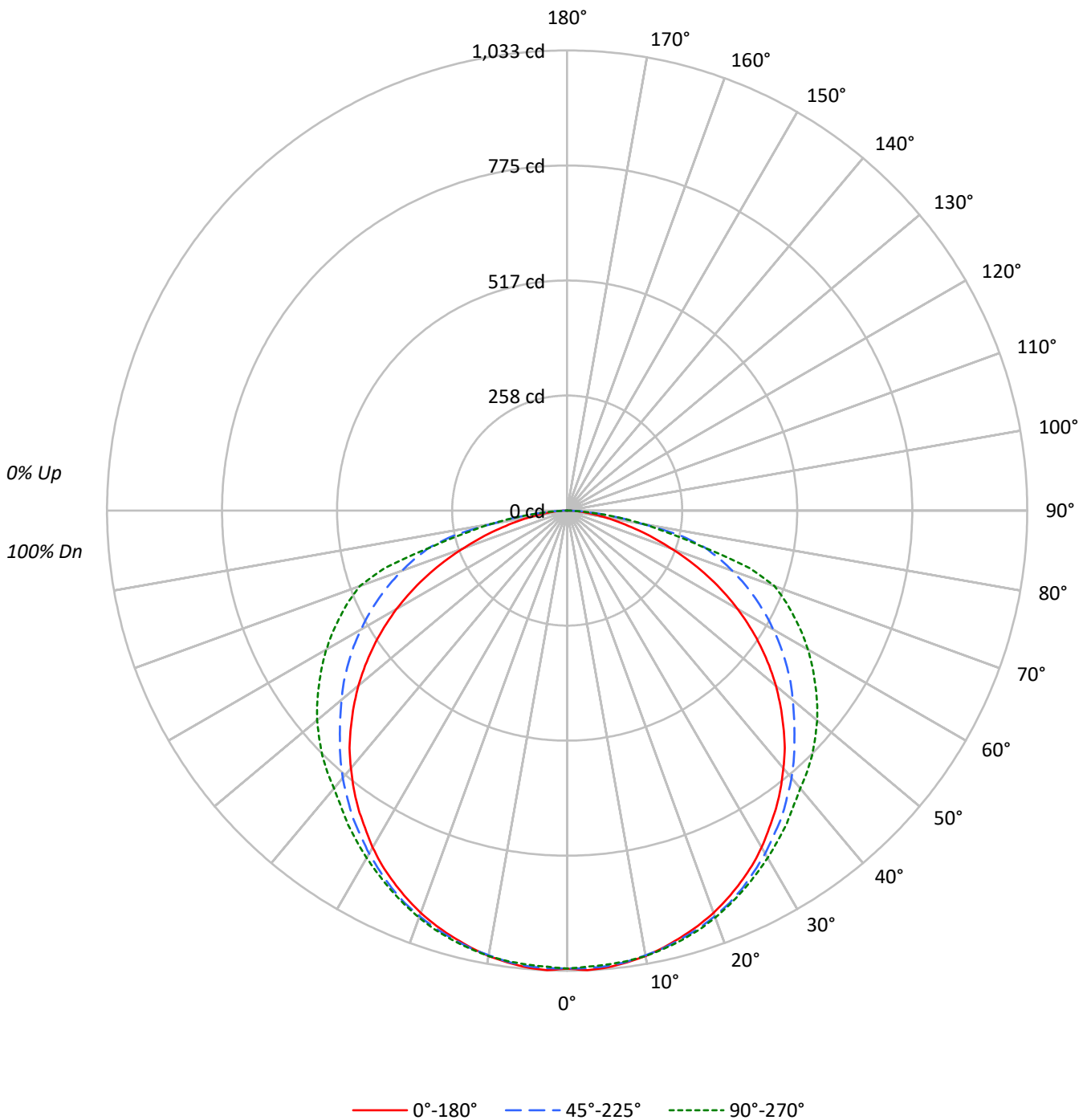
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1383	1383	1383
5°	1391	1386	1382
10°	1387	1385	1387
15°	1381	1385	1390
20°	1376	1387	1392
25°	1367	1386	1394
30°	1357	1381	1399
35°	1342	1379	1411
40°	1326	1377	1430
45°	1306	1373	1479
50°	1280	1383	1534
55°	1243	1408	1595
60°	1190	1439	1680
65°	1108	1484	1789
70°	980	1551	1947
75°	821	1660	1635
80°	656	1311	1361
85°	517	888	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.0
10°-20°	280.6	8.7
20°-30°	428.6	13.2
30°-40°	524.0	16.2
40°-50°	560.9	17.3
50°-60°	538.0	16.6
60°-70°	454.3	14.0
70°-80°	290.3	9.0
80°-90°	68.7	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°	806.8	24.9
0°-40°	1330.8	41.0
0°-60°	2429.7	74.9
0°-90°	3243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1030	1023	1026	1025	1023	98
15°	991	988	994	998	998	280
25°	921	920	934	937	939	425
35°	817	824	840	851	859	511
45°	686	698	722	755	777	529
55°	530	548	600	654	680	473
65°	348	382	466	532	562	343
75°	158	225	319	326	314	170
85°	34	56	58	56	53	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.1	1028.1	1028.1	1028.1	1028.1
2.5°	1032.8	1026.5	1028.1	1028.1	1024.9
5°	1029.7	1023.3	1026.5	1024.9	1023.3
7.5°	1023.3	1018.5	1021.7	1021.7	1020.1
10°	1015.3	1010.5	1013.7	1015.3	1015.3
12.5°	1004.1	1000.9	1005.7	1005.7	1007.3
15°	991.3	988.1	994.5	997.7	997.7
17.5°	977.0	975.4	983.4	985.0	986.6
20°	961.0	959.4	969.0	969.0	972.2
22.5°	941.9	940.3	953.0	953.0	956.2
25°	921.1	919.5	933.9	937.1	938.7
27.5°	898.8	897.2	911.5	916.3	919.5
30°	873.2	873.2	889.2	895.6	900.3
32.5°	844.5	849.3	863.6	873.2	879.6
35°	817.3	823.7	839.7	850.9	858.8
37.5°	787.0	793.4	811.0	825.3	834.9
40°	755.1	763.1	783.8	799.8	814.1
42.5°	723.2	731.1	753.5	777.4	796.6
45°	686.4	697.6	721.6	755.1	777.4
47.5°	649.7	660.9	691.2	732.7	755.1
50°	611.4	624.2	660.9	708.8	732.7
52.5°	571.5	585.9	632.2	683.2	707.2
55°	530.0	547.6	600.2	654.5	680.1
57.5°	486.9	506.0	568.3	625.8	652.9
60°	442.2	466.1	534.8	595.4	624.2
62.5°	395.9	424.6	501.3	563.5	593.8
65°	348.0	381.5	466.1	531.6	561.9
67.5°	298.5	343.2	431.0	499.7	530.0
70°	249.0	301.7	394.3	464.5	494.9
72.5°	202.7	263.4	357.6	423.0	429.4
75°	158.0	225.1	319.3	325.7	314.5
77.5°	118.1	186.8	263.4	234.7	233.1
80°	84.6	150.1	169.2	174.0	175.6
82.5°	55.9	113.3	110.1	113.3	111.7
85°	33.5	55.9	57.5	55.9	52.7
87.5°	16.0	20.8	16.0	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)