

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: P263766

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263766
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3284.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

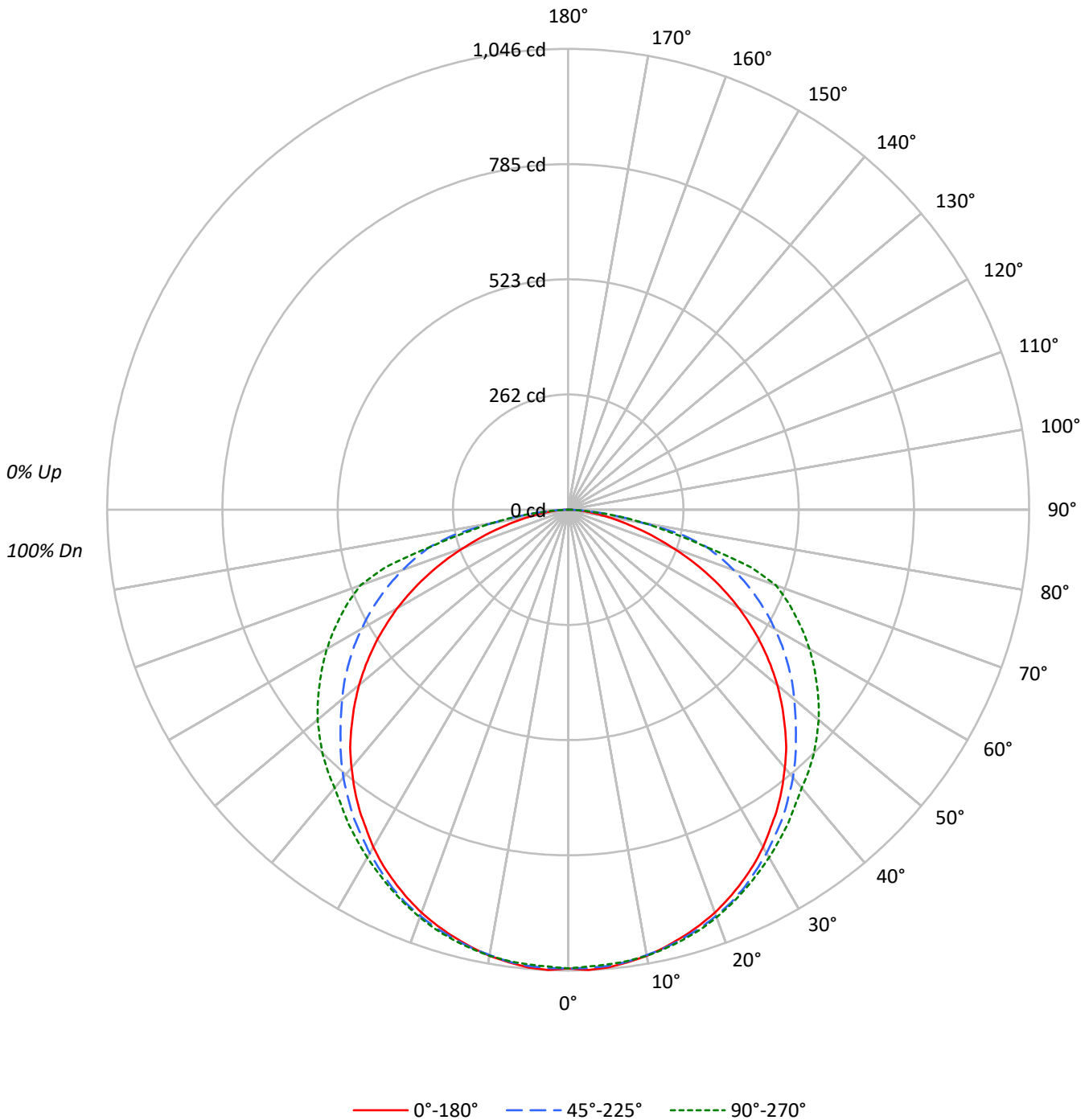
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1401	1401	1401
5°	1408	1404	1400
10°	1405	1402	1405
15°	1398	1403	1407
20°	1393	1405	1410
25°	1385	1404	1411
30°	1374	1399	1416
35°	1360	1397	1429
40°	1343	1394	1448
45°	1323	1390	1498
50°	1296	1401	1553
55°	1259	1426	1615
60°	1205	1457	1701
65°	1122	1503	1812
70°	992	1571	1971
75°	832	1681	1656
80°	664	1328	1378
85°	523	898	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.0
10°-20°	284.2	8.7
20°-30°	434.0	13.2
30°-40°	530.7	16.2
40°-50°	568.0	17.3
50°-60°	544.8	16.6
60°-70°	460.0	14.0
70°-80°	294.0	9.0
80°-90°	69.5	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°	817.0	24.9
0°-40°	1347.6	41.0
0°-60°	2460.4	74.9
0°-90°	3284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1043	1036	1039	1038	1036	99
15°	1004	1001	1007	1010	1010	283
25°	933	931	946	949	950	430
35°	828	834	850	862	870	517
45°	695	706	731	765	787	536
55°	537	554	608	663	689	479
65°	352	386	472	538	569	348
75°	160	228	323	330	318	172
85°	34	57	58	57	53	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.1	1041.1	1041.1	1041.1	1041.1
2.5°	1045.9	1039.4	1041.1	1041.1	1037.8
5°	1042.7	1036.2	1039.4	1037.8	1036.2
7.5°	1036.2	1031.4	1034.6	1034.6	1033.0
10°	1028.1	1023.3	1026.5	1028.1	1028.1
12.5°	1016.8	1013.6	1018.4	1018.4	1020.0
15°	1003.9	1000.6	1007.1	1010.3	1010.3
17.5°	989.3	987.7	995.8	997.4	999.0
20°	973.2	971.5	981.2	981.2	984.5
22.5°	953.8	952.1	965.1	965.1	968.3
25°	932.7	931.1	945.7	948.9	950.5
27.5°	910.1	908.5	923.0	927.9	931.1
30°	884.3	884.3	900.4	906.9	911.7
32.5°	855.2	860.0	874.6	884.3	890.7
35°	827.7	834.1	850.3	861.6	869.7
37.5°	797.0	803.4	821.2	835.8	845.5
40°	764.6	772.7	793.7	809.9	824.4
42.5°	732.3	740.4	763.0	787.3	806.7
45°	695.1	706.4	730.7	764.6	787.3
47.5°	657.9	669.2	700.0	742.0	764.6
50°	619.1	632.1	669.2	717.7	742.0
52.5°	578.7	593.3	640.2	691.9	716.1
55°	536.7	554.5	607.8	662.8	688.6
57.5°	493.0	512.4	575.5	633.7	661.2
60°	447.8	472.0	541.5	603.0	632.1
62.5°	400.9	430.0	507.6	570.6	601.4
65°	352.4	386.4	472.0	538.3	569.0
67.5°	302.3	347.6	436.5	506.0	536.7
70°	252.2	305.5	399.3	470.4	501.1
72.5°	205.3	266.7	362.1	428.4	434.9
75°	160.0	227.9	323.3	329.8	318.5
77.5°	119.6	189.1	266.7	237.6	236.0
80°	85.7	152.0	171.4	176.2	177.8
82.5°	56.6	114.8	111.5	114.8	113.2
85°	33.9	56.6	58.2	56.6	53.3
87.5°	16.2	21.0	16.2	14.5	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)