

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: P263679

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263679
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-LD5-50-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3298.0 lumens
Efficiency: N/A
Efficacy: 93.1 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

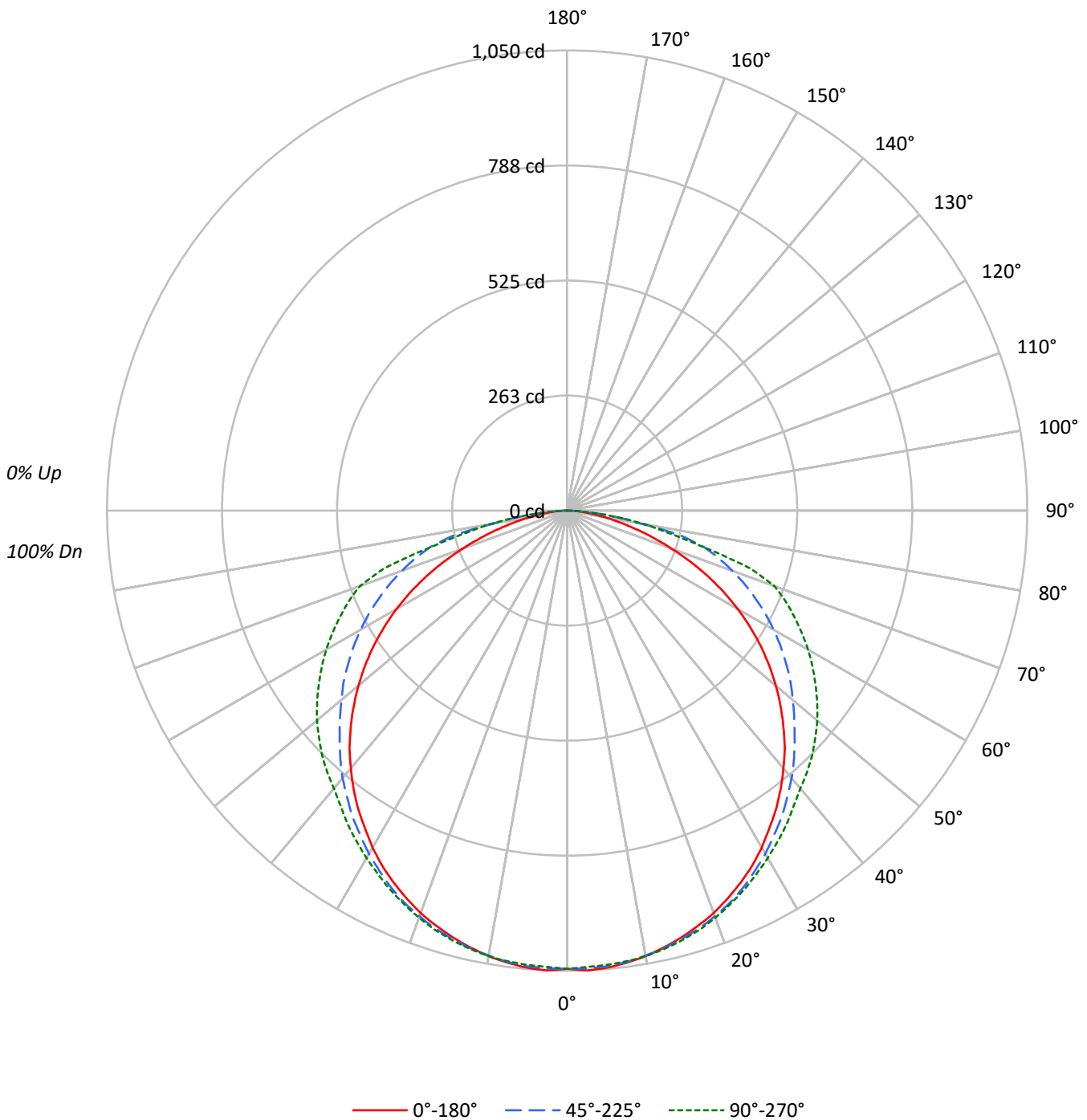
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1407	1407	1407
5°	1414	1410	1405
10°	1411	1408	1411
15°	1404	1409	1413
20°	1399	1411	1416
25°	1391	1410	1417
30°	1380	1405	1423
35°	1365	1403	1435
40°	1349	1400	1454
45°	1328	1396	1504
50°	1302	1407	1560
55°	1264	1432	1622
60°	1210	1464	1708
65°	1127	1509	1819
70°	996	1578	1980
75°	835	1688	1663
80°	666	1333	1384
85°	526	902	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.0
10°-20°	285.4	8.7
20°-30°	435.9	13.2
30°-40°	532.9	16.2
40°-50°	570.4	17.3
50°-60°	547.1	16.6
60°-70°	462.0	14.0
70°-80°	295.2	9.0
80°-90°	69.8	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°	820.4	24.9
0°-40°	1353.4	41.0
0°-60°	2470.9	74.9
0°-90°	3298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1047	1041	1044	1042	1041	99
15°	1008	1005	1011	1015	1015	285
25°	937	935	950	953	955	432
35°	831	838	854	865	873	520
45°	698	709	734	768	791	538
55°	539	557	610	666	692	481
65°	354	388	474	541	571	349
75°	161	229	325	331	320	173
85°	34	57	58	57	54	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	1050.4	1043.9	1045.5	1045.5	1042.2
5°	1047.1	1040.6	1043.9	1042.2	1040.6
7.5°	1040.6	1035.8	1039.0	1039.0	1037.4
10°	1032.5	1027.6	1030.9	1032.5	1032.5
12.5°	1021.1	1017.9	1022.8	1022.8	1024.4
15°	1008.2	1004.9	1011.4	1014.6	1014.6
17.5°	993.5	991.9	1000.0	1001.7	1003.3
20°	977.3	975.7	985.4	985.4	988.7
22.5°	957.8	956.2	969.2	969.2	972.4
25°	936.7	935.1	949.7	953.0	954.6
27.5°	914.0	912.4	927.0	931.9	935.1
30°	888.0	888.0	904.3	910.7	915.6
32.5°	858.8	863.7	878.3	888.0	894.5
35°	831.2	837.7	853.9	865.3	873.4
37.5°	800.4	806.8	824.7	839.3	849.1
40°	767.9	776.0	797.1	813.3	828.0
42.5°	735.4	743.5	766.3	790.6	810.1
45°	698.1	709.4	733.8	767.9	790.6
47.5°	660.7	672.1	702.9	745.2	767.9
50°	621.8	634.8	672.1	720.8	745.2
52.5°	581.2	595.8	642.9	694.8	719.2
55°	539.0	556.8	610.4	665.6	691.6
57.5°	495.1	514.6	577.9	636.4	664.0
60°	449.7	474.0	543.9	605.5	634.8
62.5°	402.6	431.8	509.8	573.1	603.9
65°	353.9	388.0	474.0	540.6	571.4
67.5°	303.6	349.0	438.3	508.1	539.0
70°	253.3	306.8	401.0	472.4	503.3
72.5°	206.2	267.9	363.6	430.2	436.7
75°	160.7	228.9	324.7	331.2	319.8
77.5°	120.1	189.9	267.9	238.6	237.0
80°	86.0	152.6	172.1	177.0	178.6
82.5°	56.8	115.3	112.0	115.3	113.6
85°	34.1	56.8	58.4	56.8	53.6
87.5°	16.2	21.1	16.2	14.6	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)