

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: P263818

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263818
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3229.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

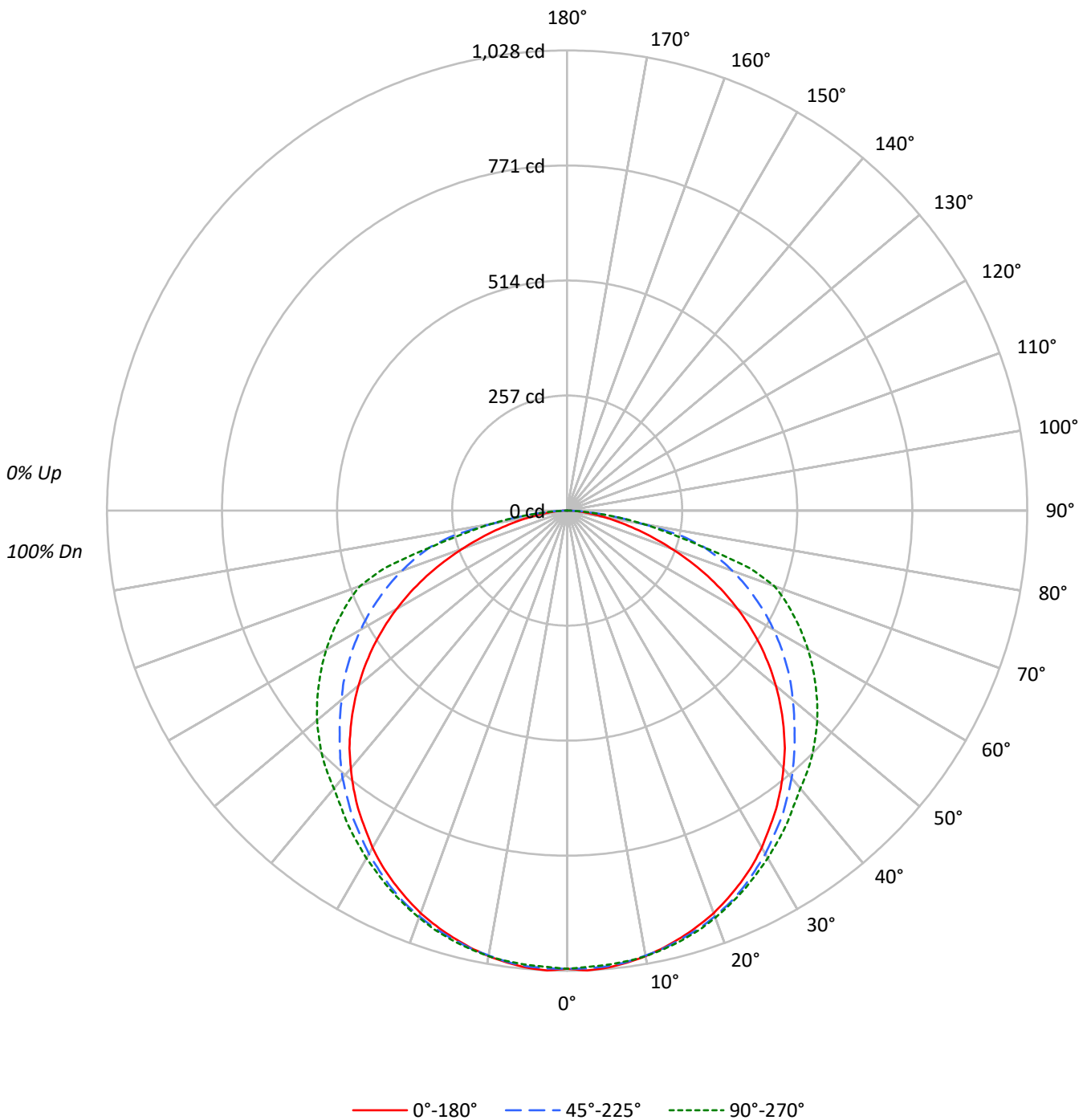
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1377	1377	1377
5°	1385	1380	1376
10°	1381	1379	1381
15°	1375	1379	1384
20°	1370	1381	1386
25°	1362	1380	1387
30°	1351	1375	1393
35°	1337	1373	1405
40°	1320	1371	1424
45°	1301	1367	1473
50°	1274	1377	1527
55°	1238	1402	1588
60°	1185	1433	1672
65°	1103	1478	1781
70°	976	1544	1938
75°	818	1653	1628
80°	652	1306	1354
85°	516	883	810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.0
10°-20°	279.4	8.7
20°-30°	426.8	13.2
30°-40°	521.8	16.2
40°-50°	558.5	17.3
50°-60°	535.7	16.6
60°-70°	452.3	14.0
70°-80°	289.1	9.0
80°-90°	68.4	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°	803.3	24.9
0°-40°	1325.1	41.0
0°-60°	2419.2	74.9
0°-90°	3229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1025	1019	1022	1020	1019	97
15°	987	984	990	993	993	279
25°	917	916	930	933	935	423
35°	814	820	836	847	855	509
45°	684	695	718	752	774	527
55°	528	545	598	652	677	471
65°	346	380	464	529	560	342
75°	157	224	318	324	313	169
85°	33	56	57	56	52	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.6	1023.6	1023.6	1023.6	1023.6
2.5°	1028.4	1022.0	1023.6	1023.6	1020.4
5°	1025.2	1018.9	1022.0	1020.4	1018.9
7.5°	1018.9	1014.1	1017.3	1017.3	1015.7
10°	1010.9	1006.1	1009.3	1010.9	1010.9
12.5°	999.8	996.6	1001.4	1001.4	1003.0
15°	987.1	983.9	990.2	993.4	993.4
17.5°	972.8	971.2	979.1	980.7	982.3
20°	956.9	955.3	964.8	964.8	968.0
22.5°	937.8	936.2	948.9	948.9	952.1
25°	917.1	915.5	929.8	933.0	934.6
27.5°	894.9	893.3	907.6	912.4	915.5
30°	869.4	869.4	885.3	891.7	896.5
32.5°	840.8	845.6	859.9	869.4	875.8
35°	813.8	820.2	836.1	847.2	855.1
37.5°	783.6	790.0	807.5	821.8	831.3
40°	751.8	759.8	780.4	796.3	810.6
42.5°	720.0	728.0	750.2	774.1	793.1
45°	683.5	694.6	718.4	751.8	774.1
47.5°	646.9	658.0	688.2	729.6	751.8
50°	608.8	621.5	658.0	705.7	729.6
52.5°	569.0	583.3	629.4	680.3	704.1
55°	527.7	545.2	597.6	651.7	677.1
57.5°	484.8	503.9	565.9	623.1	650.1
60°	440.3	464.1	532.5	592.9	621.5
62.5°	394.2	422.8	499.1	561.1	591.3
65°	346.5	379.9	464.1	529.3	559.5
67.5°	297.2	341.7	429.2	497.5	527.7
70°	248.0	300.4	392.6	462.5	492.7
72.5°	201.9	262.3	356.0	421.2	427.6
75°	157.4	224.1	317.9	324.3	313.1
77.5°	117.6	186.0	262.3	233.7	232.1
80°	84.2	149.4	168.5	173.3	174.8
82.5°	55.6	112.9	109.7	112.9	111.3
85°	33.4	55.6	57.2	55.6	52.5
87.5°	15.9	20.7	15.9	14.3	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)