

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: P263821

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263821
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3315.0 lumens
Efficiency: N/A
Efficacy: 88.7 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

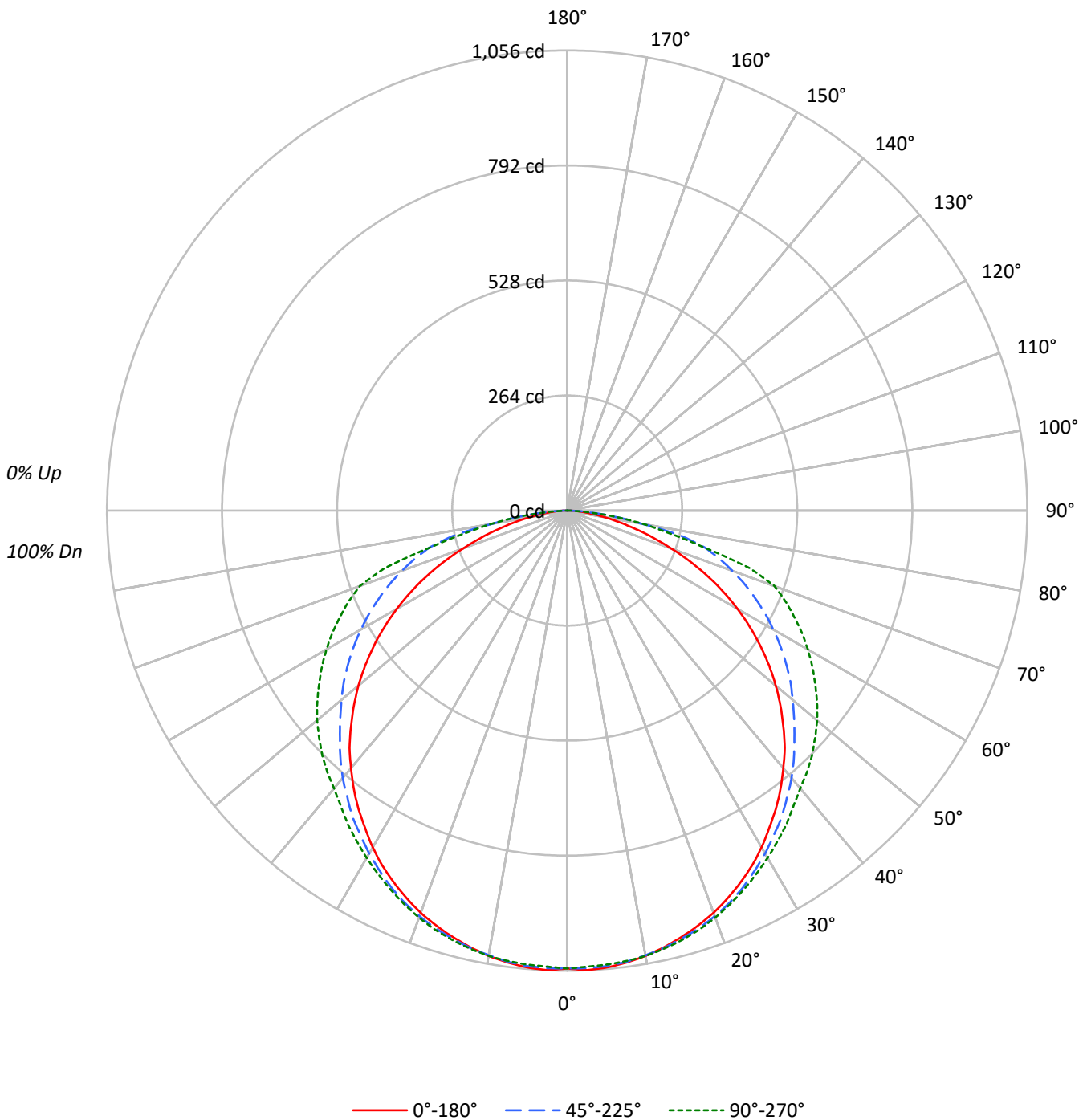
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1414	1414	1414
5°	1422	1417	1413
10°	1418	1416	1418
15°	1412	1416	1421
20°	1406	1418	1423
25°	1398	1417	1424
30°	1387	1412	1430
35°	1372	1410	1442
40°	1356	1407	1462
45°	1335	1404	1512
50°	1308	1414	1568
55°	1271	1439	1631
60°	1216	1471	1717
65°	1132	1517	1829
70°	1002	1586	1990
75°	840	1697	1671
80°	670	1340	1391
85°	530	906	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.0
10°-20°	286.9	8.7
20°-30°	438.2	13.2
30°-40°	535.7	16.2
40°-50°	573.4	17.3
50°-60°	550.0	16.6
60°-70°	464.4	14.0
70°-80°	296.8	9.0
80°-90°	70.2	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°	824.7	24.9
0°-40°	1360.3	41.0
0°-60°	2483.7	74.9
0°-90°	3315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1052	1046	1049	1048	1046	100
15°	1013	1010	1017	1020	1020	286
25°	942	940	955	958	960	434
35°	836	842	858	870	878	522
45°	702	713	738	772	795	541
55°	542	560	614	669	695	483
65°	356	390	476	543	574	351
75°	162	230	326	333	322	174
85°	34	57	59	57	54	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.9	1050.9	1050.9	1050.9	1050.9
2.5°	1055.8	1049.3	1050.9	1050.9	1047.6
5°	1052.5	1046.0	1049.3	1047.6	1046.0
7.5°	1046.0	1041.1	1044.4	1044.4	1042.7
10°	1037.8	1032.9	1036.2	1037.8	1037.8
12.5°	1026.4	1023.1	1028.0	1028.0	1029.7
15°	1013.4	1010.1	1016.6	1019.9	1019.9
17.5°	998.7	997.0	1005.2	1006.8	1008.5
20°	982.3	980.7	990.5	990.5	993.8
22.5°	962.8	961.1	974.2	974.2	977.5
25°	941.6	939.9	954.6	957.9	959.5
27.5°	918.7	917.1	931.8	936.7	939.9
30°	892.6	892.6	908.9	915.4	920.3
32.5°	863.2	868.1	882.8	892.6	899.1
35°	835.5	842.0	858.3	869.8	877.9
37.5°	804.5	811.0	829.0	843.6	853.4
40°	771.8	780.0	801.2	817.5	832.2
42.5°	739.2	747.4	770.2	794.7	814.3
45°	701.7	713.1	737.6	771.8	794.7
47.5°	664.1	675.6	706.6	749.0	771.8
50°	625.0	638.0	675.6	724.5	749.0
52.5°	584.2	598.9	646.2	698.4	722.9
55°	541.8	559.7	613.6	669.0	695.1
57.5°	497.7	517.3	580.9	639.7	667.4
60°	452.0	476.5	546.7	608.7	638.0
62.5°	404.7	434.1	512.4	576.0	607.0
65°	355.7	390.0	476.5	543.4	574.4
67.5°	305.1	350.8	440.6	510.8	541.8
70°	254.6	308.4	403.1	474.9	505.9
72.5°	207.2	269.2	365.5	432.4	439.0
75°	161.5	230.1	326.4	332.9	321.5
77.5°	120.8	190.9	269.2	239.9	238.2
80°	86.5	153.4	173.0	177.9	179.5
82.5°	57.1	115.9	112.6	115.9	114.2
85°	34.3	57.1	58.7	57.1	53.8
87.5°	16.3	21.2	16.3	14.7	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)