

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: P263820

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263820
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3293.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

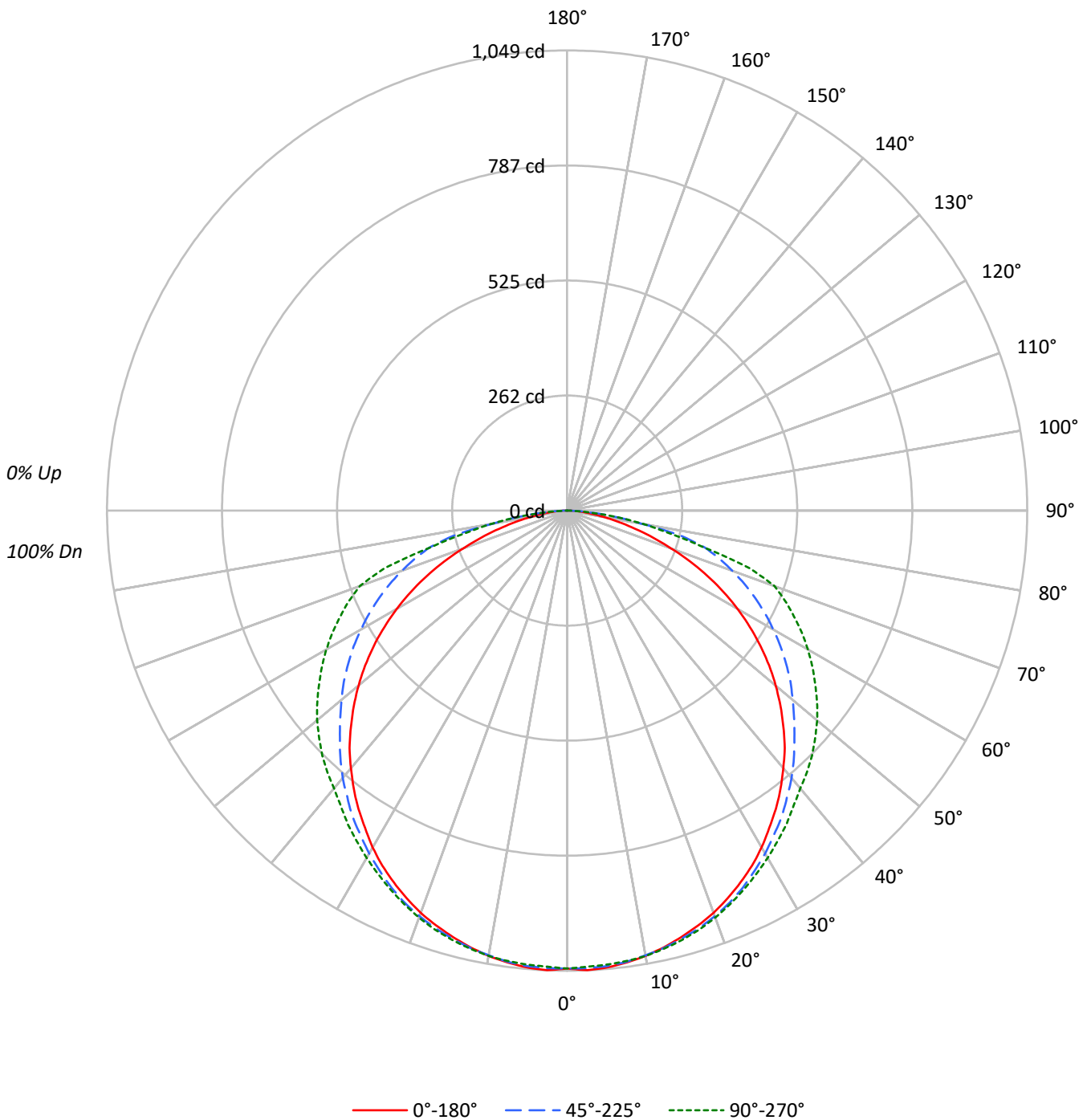
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1405	1405	1405
5°	1412	1408	1403
10°	1408	1406	1408
15°	1402	1407	1411
20°	1397	1409	1414
25°	1389	1408	1415
30°	1378	1403	1420
35°	1363	1400	1432
40°	1347	1398	1452
45°	1326	1394	1502
50°	1299	1405	1557
55°	1263	1430	1620
60°	1208	1461	1706
65°	1125	1507	1817
70°	995	1575	1977
75°	834	1685	1660
80°	666	1331	1382
85°	525	902	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.0
10°-20°	284.9	8.7
20°-30°	435.2	13.2
30°-40°	532.1	16.2
40°-50°	569.6	17.3
50°-60°	546.3	16.6
60°-70°	461.3	14.0
70°-80°	294.8	9.0
80°-90°	69.7	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°	819.2	24.9
0°-40°	1351.3	41.0
0°-60°	2467.2	74.9
0°-90°	3293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1046	1039	1042	1041	1039	99
15°	1007	1003	1010	1013	1013	284
25°	935	934	948	952	953	431
35°	830	836	853	864	872	519
45°	697	708	733	767	789	538
55°	538	556	610	665	690	480
65°	353	387	473	540	571	349
75°	160	229	324	331	319	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°	1043.9	1043.9	1043.9	1043.9	1043.9
2.5°	1048.8	1042.3	1043.9	1043.9	1040.7
5°	1045.5	1039.0	1042.3	1040.7	1039.0
7.5°	1039.0	1034.2	1037.4	1037.4	1035.8
10°	1030.9	1026.1	1029.3	1030.9	1030.9
12.5°	1019.6	1016.4	1021.2	1021.2	1022.8
15°	1006.6	1003.4	1009.9	1013.1	1013.1
17.5°	992.0	990.4	998.5	1000.1	1001.8
20°	975.8	974.2	983.9	983.9	987.2
22.5°	956.4	954.8	967.7	967.7	971.0
25°	935.3	933.7	948.3	951.5	953.1
27.5°	912.6	911.0	925.6	930.4	933.7
30°	886.7	886.7	902.9	909.4	914.2
32.5°	857.5	862.4	876.9	886.7	893.2
35°	829.9	836.4	852.6	864.0	872.1
37.5°	799.1	805.6	823.5	838.0	847.8
40°	766.7	774.8	795.9	812.1	826.7
42.5°	734.3	742.4	765.1	789.4	808.9
45°	697.0	708.4	732.7	766.7	789.4
47.5°	659.7	671.1	701.9	744.0	766.7
50°	620.8	633.8	671.1	719.7	744.0
52.5°	580.3	594.9	641.9	693.8	718.1
55°	538.2	556.0	609.5	664.6	690.5
57.5°	494.4	513.8	577.1	635.4	663.0
60°	449.0	473.3	543.0	604.6	633.8
62.5°	402.0	431.2	509.0	572.2	603.0
65°	353.4	387.4	473.3	539.8	570.6
67.5°	303.1	348.5	437.7	507.4	538.2
70°	252.9	306.4	400.4	471.7	502.5
72.5°	205.9	267.5	363.1	429.6	436.0
75°	160.5	228.6	324.2	330.7	319.3
77.5°	120.0	189.7	267.5	238.3	236.7
80°	85.9	152.4	171.8	176.7	178.3
82.5°	56.7	115.1	111.8	115.1	113.5
85°	34.0	56.7	58.4	56.7	53.5
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)