

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: P263593

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263593
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-LD5-55-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3278.7 lumens
Efficiency: N/A
Efficacy: 80.3 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

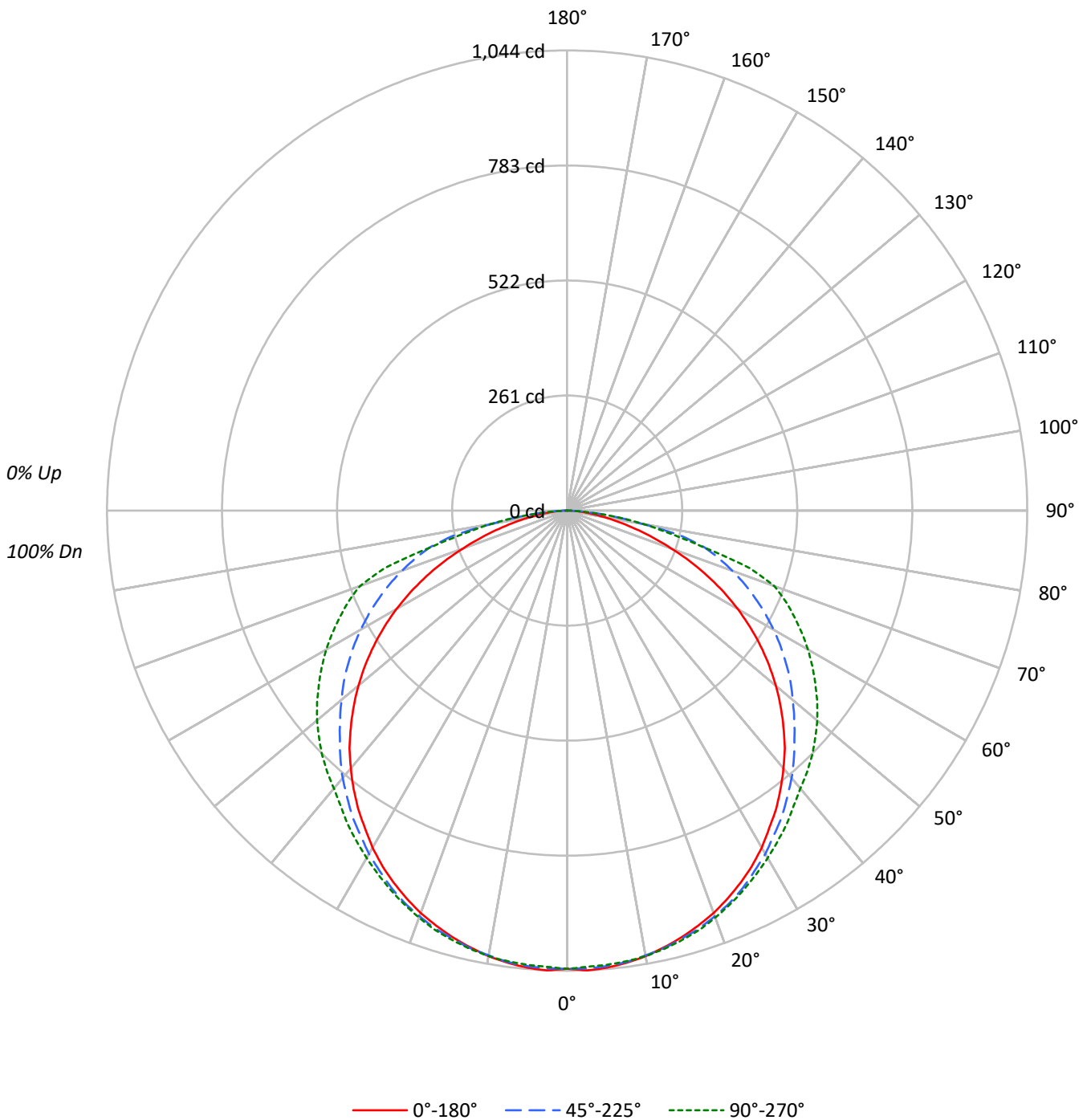
Input Watts (W): 40.844577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1399	1399	1399
5°	1406	1402	1397
10°	1402	1400	1402
15°	1396	1401	1405
20°	1391	1403	1407
25°	1382	1402	1409
30°	1372	1397	1414
35°	1357	1394	1426
40°	1341	1392	1446
45°	1321	1388	1496
50°	1294	1399	1551
55°	1257	1423	1613
60°	1203	1455	1698
65°	1120	1500	1809
70°	991	1568	1968
75°	831	1678	1653
80°	662	1326	1375
85°	523	897	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.0
10°-20°	283.7	8.7
20°-30°	433.3	13.2
30°-40°	529.8	16.2
40°-50°	567.1	17.3
50°-60°	543.9	16.6
60°-70°	459.3	14.0
70°-80°	293.5	9.0
80°-90°	69.4	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°	815.6	24.9
0°-40°	1345.4	41.0
0°-60°	2456.5	74.9
0°-90°	3278.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1041	1034	1038	1036	1034	99
15°	1002	999	1006	1009	1009	283
25°	931	930	944	947	949	429
35°	826	833	849	860	868	517
45°	694	705	730	763	786	535
55°	536	554	607	662	688	478
65°	352	386	471	537	568	347
75°	160	228	323	329	318	172
85°	34	56	58	56	53	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	1044.2	1037.7	1039.4	1039.4	1036.1
5°	1041.0	1034.5	1037.7	1036.1	1034.5
7.5°	1034.5	1029.7	1032.9	1032.9	1031.3
10°	1026.5	1021.6	1024.8	1026.5	1026.5
12.5°	1015.2	1011.9	1016.8	1016.8	1018.4
15°	1002.2	999.0	1005.5	1008.7	1008.7
17.5°	987.7	986.1	994.2	995.8	997.4
20°	971.6	970.0	979.6	979.6	982.9
22.5°	952.2	950.6	963.5	963.5	966.7
25°	931.2	929.6	944.1	947.4	949.0
27.5°	908.6	907.0	921.5	926.4	929.6
30°	882.8	882.8	899.0	905.4	910.2
32.5°	853.8	858.6	873.1	882.8	889.3
35°	826.3	832.8	848.9	860.2	868.3
37.5°	795.7	802.1	819.9	834.4	844.1
40°	763.4	771.5	792.4	808.6	823.1
42.5°	731.1	739.2	761.8	786.0	805.3
45°	694.0	705.3	729.5	763.4	786.0
47.5°	656.9	668.2	698.8	740.8	763.4
50°	618.1	631.0	668.2	716.6	740.8
52.5°	577.8	592.3	639.1	690.8	715.0
55°	535.8	553.6	606.8	661.7	687.5
57.5°	492.2	511.6	574.6	632.7	660.1
60°	447.1	471.3	540.7	602.0	631.0
62.5°	400.3	429.3	506.8	569.7	600.4
65°	351.8	385.7	471.3	537.4	568.1
67.5°	301.8	347.0	435.8	505.2	535.8
70°	251.8	305.0	398.6	469.7	500.3
72.5°	205.0	266.3	361.5	427.7	434.1
75°	159.8	227.6	322.8	329.2	317.9
77.5°	119.4	188.8	266.3	237.2	235.6
80°	85.5	151.7	171.1	175.9	177.5
82.5°	56.5	114.6	111.4	114.6	113.0
85°	33.9	56.5	58.1	56.5	53.3
87.5°	16.1	21.0	16.1	14.5	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)