

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: P263910

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263910
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-LD5-50SE-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

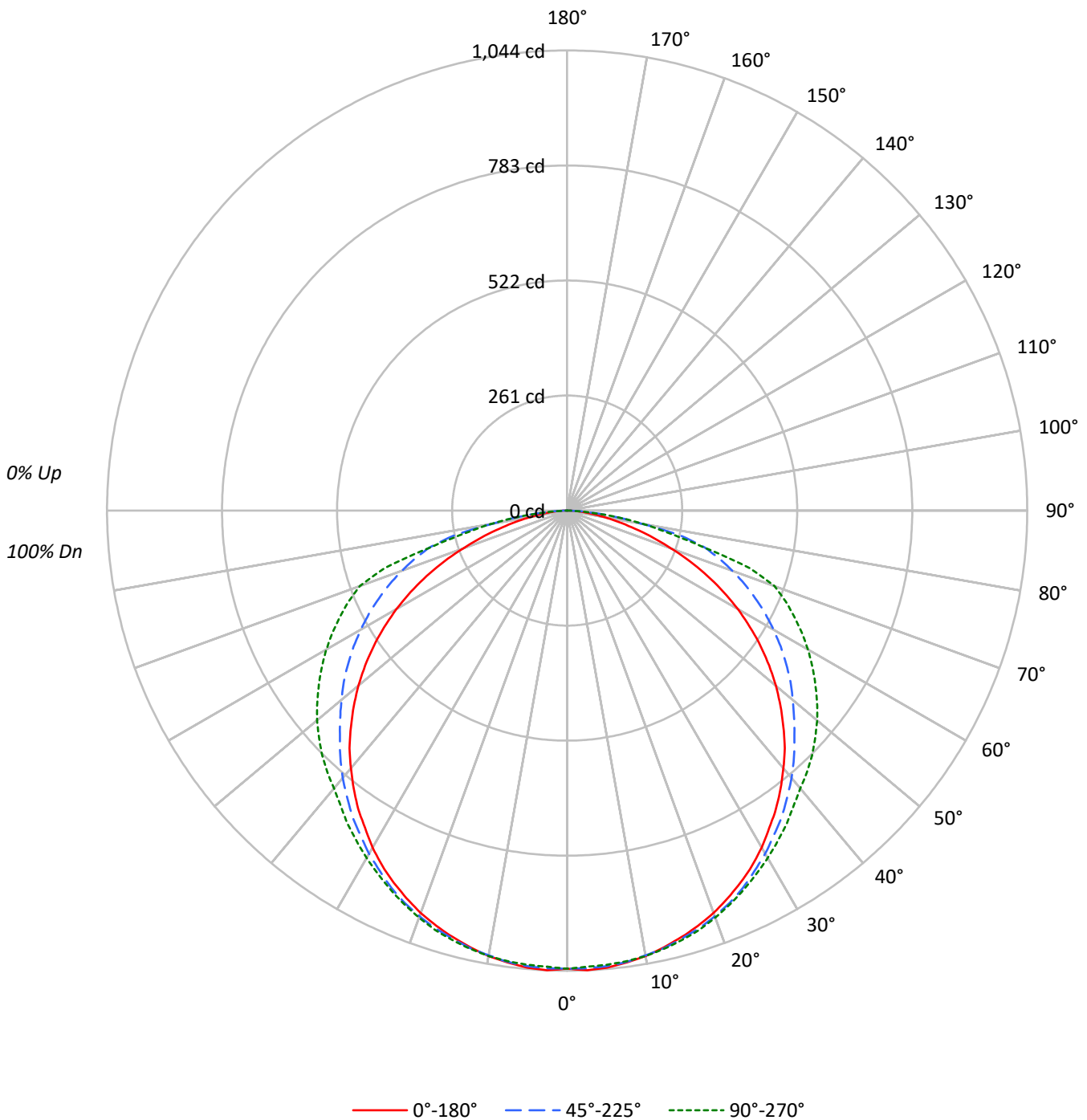
Input Watts (W): 40.92
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1398	1398	1398
5°	1406	1401	1397
10°	1402	1400	1402
15°	1396	1400	1405
20°	1391	1402	1407
25°	1382	1401	1409
30°	1371	1396	1414
35°	1357	1394	1426
40°	1340	1392	1445
45°	1320	1388	1495
50°	1294	1398	1550
55°	1257	1423	1612
60°	1203	1455	1698
65°	1120	1500	1808
70°	990	1568	1968
75°	830	1678	1653
80°	662	1325	1375
85°	523	897	821



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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°	529.7	16.2
40°-50°	567.0	17.3
50°-60°	543.8	16.6
60°-70°	459.2	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°	815.5	24.9
0°-40°	1345.2	41.0
0°-60°	2455.9	74.9
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	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	1005	1008	1008	283
25°	931	929	944	947	949	429
35°	826	833	849	860	868	517
45°	694	705	729	763	786	535
55°	536	554	607	662	687	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°	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1044.0	1037.5	1039.2	1039.2	1035.9
5°	1040.8	1034.3	1037.5	1035.9	1034.3
7.5°	1034.3	1029.5	1032.7	1032.7	1031.1
10°	1026.2	1021.4	1024.6	1026.2	1026.2
12.5°	1014.9	1011.7	1016.6	1016.6	1018.2
15°	1002.0	998.8	1005.3	1008.5	1008.5
17.5°	987.5	985.9	994.0	995.6	997.2
20°	971.4	969.8	979.5	979.5	982.7
22.5°	952.0	950.4	963.3	963.3	966.5
25°	931.0	929.4	944.0	947.2	948.8
27.5°	908.5	906.8	921.4	926.2	929.4
30°	882.6	882.6	898.8	905.2	910.1
32.5°	853.6	858.4	873.0	882.6	889.1
35°	826.2	832.6	848.7	860.0	868.1
37.5°	795.5	802.0	819.7	834.2	843.9
40°	763.2	771.3	792.3	808.4	822.9
42.5°	731.0	739.0	761.6	785.8	805.2
45°	693.8	705.1	729.3	763.2	785.8
47.5°	656.7	668.0	698.7	740.6	763.2
50°	618.0	630.9	668.0	716.4	740.6
52.5°	577.7	592.2	639.0	690.6	714.8
55°	535.7	553.5	606.7	661.6	687.4
57.5°	492.1	511.5	574.4	632.5	660.0
60°	447.0	471.2	540.6	601.9	630.9
62.5°	400.2	429.2	506.7	569.6	600.3
65°	351.8	385.6	471.2	537.3	568.0
67.5°	301.7	346.9	435.7	505.1	535.7
70°	251.7	305.0	398.6	469.6	500.2
72.5°	204.9	266.2	361.4	427.6	434.1
75°	159.7	227.5	322.7	329.2	317.9
77.5°	119.4	188.8	266.2	237.2	235.6
80°	85.5	151.7	171.0	175.9	177.5
82.5°	56.5	114.6	111.3	114.6	113.0
85°	33.9	56.5	58.1	56.5	53.2
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)