

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: P263393

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-SQP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2607.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

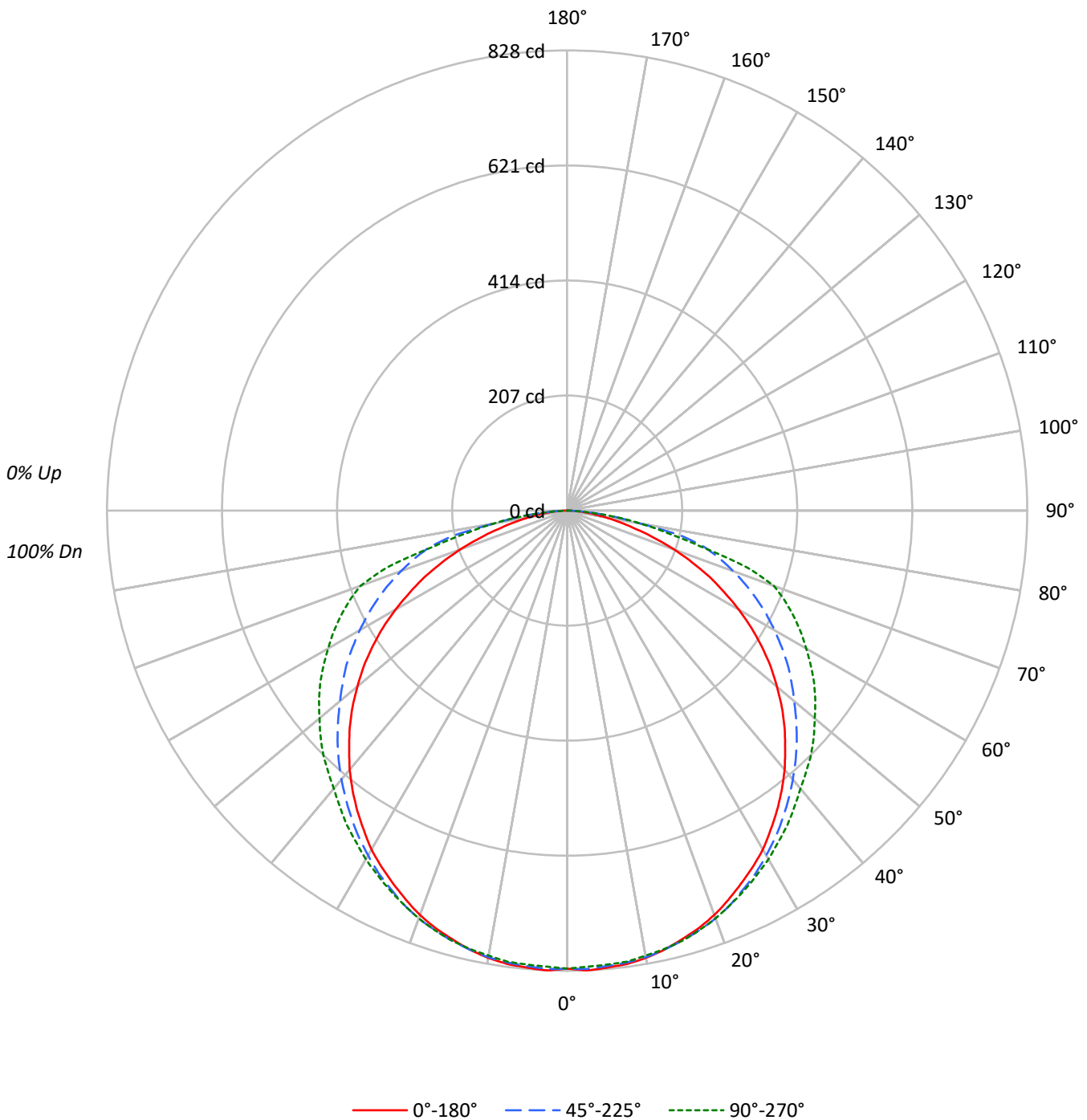
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1109	1109	1109
5°	1115	1111	1108
10°	1117	1115	1111
15°	1112	1116	1116
20°	1109	1118	1118
25°	1099	1116	1120
30°	1094	1113	1126
35°	1082	1110	1135
40°	1069	1109	1147
45°	1053	1112	1181
50°	1032	1116	1218
55°	1004	1137	1273
60°	960	1160	1337
65°	900	1196	1432
70°	805	1250	1557
75°	665	1337	1288
80°	542	1033	1044
85°	437	685	644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.0
10°-20°	225.9	8.7
20°-30°	345.2	13.2
30°-40°	422.2	16.2
40°-50°	451.7	17.3
50°-60°	432.6	16.6
60°-70°	365.9	14.0
70°-80°	231.9	8.9
80°-90°	53.4	2.0
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°	649.3	24.9
0°-40°	1071.5	41.1
0°-60°	1955.8	75.0
0°-90°	2607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	826	821	823	821	820	79
15°	798	797	801	801	801	226
25°	741	741	751	754	754	342
35°	658	662	676	685	691	412
45°	554	563	584	609	621	426
55°	428	442	485	525	543	382
65°	283	310	376	427	450	279
75°	128	180	257	256	248	139
85°	28	43	44	40	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.1	824.1	824.1	824.1	824.1
2.5°	828.2	824.1	825.5	824.1	821.4
5°	825.5	821.4	822.8	821.4	820.1
7.5°	822.8	818.7	820.1	818.7	818.7
10°	817.4	813.3	816.0	814.7	813.3
12.5°	809.3	806.6	809.3	808.0	808.0
15°	798.5	797.2	801.2	801.2	801.2
17.5°	787.8	786.4	791.8	791.8	791.8
20°	774.3	773.0	781.0	781.0	781.0
22.5°	758.1	756.8	767.6	767.6	767.6
25°	740.6	740.6	751.4	754.1	754.1
27.5°	723.1	723.1	735.2	739.3	739.3
30°	704.3	704.3	716.4	721.8	724.5
32.5°	681.4	684.1	697.5	704.3	707.0
35°	658.5	662.5	676.0	685.4	690.8
37.5°	634.3	638.3	654.4	665.2	672.0
40°	608.7	614.1	631.6	645.0	653.1
42.5°	580.4	588.5	608.7	626.2	636.9
45°	553.5	562.9	584.4	608.7	620.8
47.5°	523.8	534.6	558.8	589.8	601.9
50°	492.9	503.6	533.3	568.3	581.7
52.5°	461.9	474.0	509.0	546.7	562.9
55°	428.2	441.7	484.8	525.2	542.7
57.5°	393.2	409.4	457.8	500.9	519.8
60°	356.9	377.0	430.9	476.7	496.9
62.5°	319.1	343.4	404.0	452.5	474.0
65°	282.8	309.7	375.7	426.9	449.8
67.5°	243.7	277.4	347.4	402.6	424.2
70°	204.7	243.7	317.8	374.4	395.9
72.5°	165.6	212.8	288.2	339.3	339.3
75°	127.9	180.4	257.2	255.9	247.8
77.5°	97.0	150.8	211.4	180.4	181.8
80°	70.0	121.2	133.3	133.3	134.7
82.5°	47.1	92.9	86.2	84.8	87.5
85°	28.3	43.1	44.4	40.4	41.7
87.5°	13.5	14.8	12.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)