

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: P263401

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263401
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

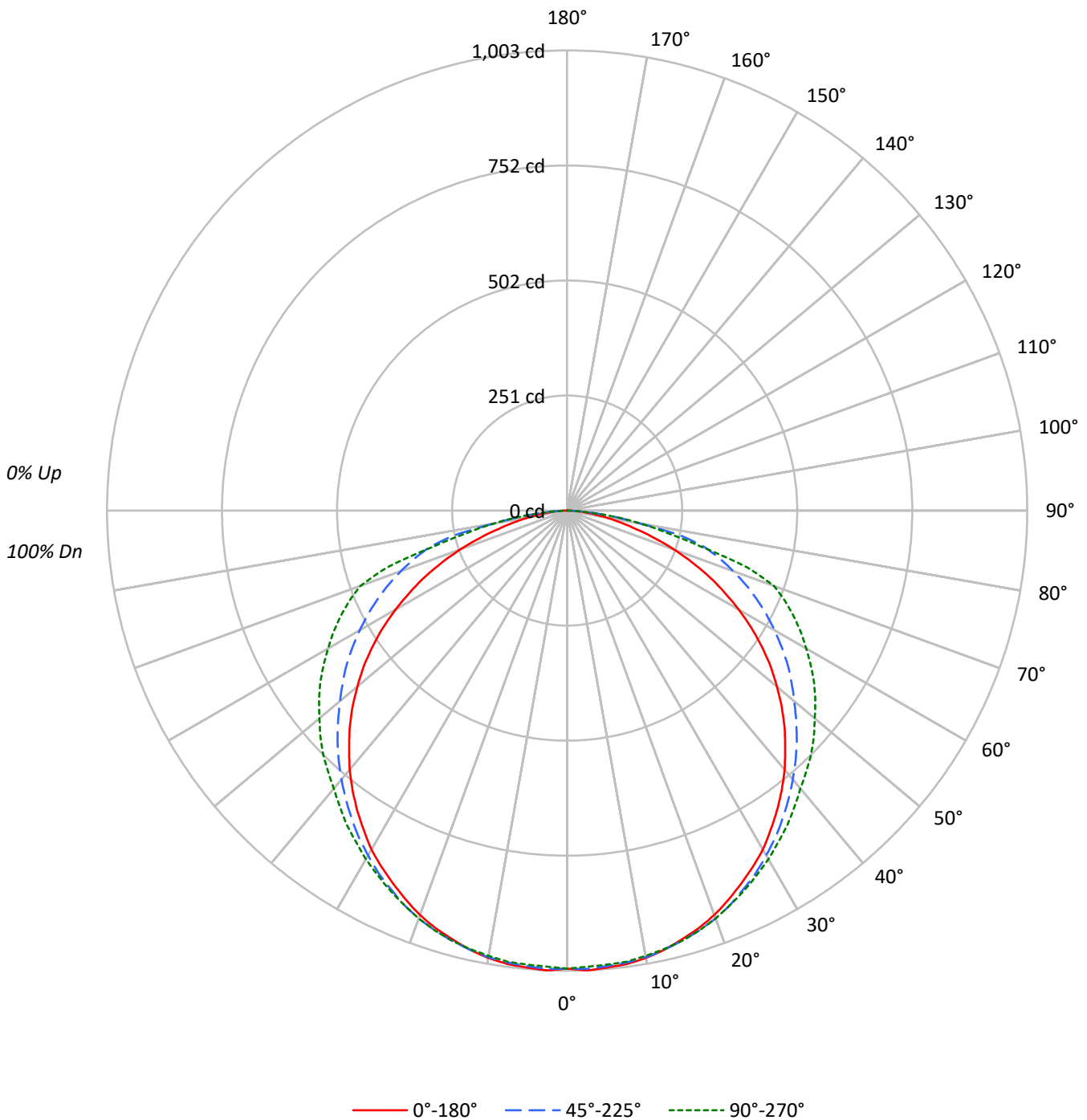
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1343	1343	1343
5°	1350	1346	1342
10°	1353	1351	1346
15°	1347	1352	1352
20°	1343	1355	1355
25°	1332	1351	1356
30°	1325	1348	1363
35°	1310	1345	1374
40°	1295	1344	1389
45°	1276	1347	1431
50°	1250	1352	1475
55°	1217	1377	1542
60°	1163	1405	1620
65°	1091	1449	1734
70°	975	1515	1887
75°	806	1620	1560
80°	657	1251	1264
85°	530	831	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.0
10°-20°	273.6	8.7
20°-30°	418.1	13.2
30°-40°	511.4	16.2
40°-50°	547.2	17.3
50°-60°	524.0	16.6
60°-70°	443.3	14.0
70°-80°	281.0	8.9
80°-90°	64.6	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°	786.5	24.9
0°-40°	1298.0	41.1
0°-60°	2369.1	75.0
0°-90°	3158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	1000	995	997	995	993	95
15°	967	966	971	971	971	273
25°	897	897	910	914	914	414
35°	798	803	819	830	837	499
45°	670	682	708	737	752	516
55°	519	535	587	636	657	463
65°	343	375	455	517	545	337
75°	155	219	312	310	300	168
85°	34	52	54	49	51	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.3	998.3	998.3	998.3	998.3
2.5°	1003.2	998.3	999.9	998.3	995.0
5°	999.9	995.0	996.7	995.0	993.4
7.5°	996.7	991.8	993.4	991.8	991.8
10°	990.1	985.3	988.5	986.9	985.3
12.5°	980.4	977.1	980.4	978.7	978.7
15°	967.3	965.7	970.6	970.6	970.6
17.5°	954.3	952.6	959.2	959.2	959.2
20°	937.9	936.3	946.1	946.1	946.1
22.5°	918.4	916.7	929.8	929.8	929.8
25°	897.2	897.2	910.2	913.5	913.5
27.5°	876.0	876.0	890.6	895.5	895.5
30°	853.1	853.1	867.8	874.3	877.6
32.5°	825.4	828.7	845.0	853.1	856.4
35°	797.7	802.6	818.9	830.3	836.8
37.5°	768.3	773.2	792.8	805.8	814.0
40°	737.3	743.8	765.0	781.4	791.1
42.5°	703.1	712.8	737.3	758.5	771.6
45°	670.4	681.8	707.9	737.3	752.0
47.5°	634.5	647.6	677.0	714.5	729.2
50°	597.0	610.1	646.0	688.4	704.7
52.5°	559.5	574.2	616.6	662.3	681.8
55°	518.7	535.0	587.2	636.2	657.4
57.5°	476.3	495.9	554.6	606.8	629.6
60°	432.3	456.7	522.0	577.4	601.9
62.5°	386.6	416.0	489.4	548.1	574.2
65°	342.6	375.2	455.1	517.1	544.8
67.5°	295.2	336.0	420.9	487.7	513.8
70°	247.9	295.2	385.0	453.5	479.6
72.5°	200.6	257.7	349.1	411.1	411.1
75°	155.0	218.6	311.6	309.9	300.1
77.5°	117.4	182.7	256.1	218.6	220.2
80°	84.8	146.8	161.5	161.5	163.1
82.5°	57.1	112.6	104.4	102.8	106.0
85°	34.3	52.2	53.8	48.9	50.6
87.5°	16.3	17.9	14.7	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)