

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: P277144

Luminaire Tested: **24CZ2-50-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2593.3 lumens
Efficiency: N/A
Efficacy: 65.9 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

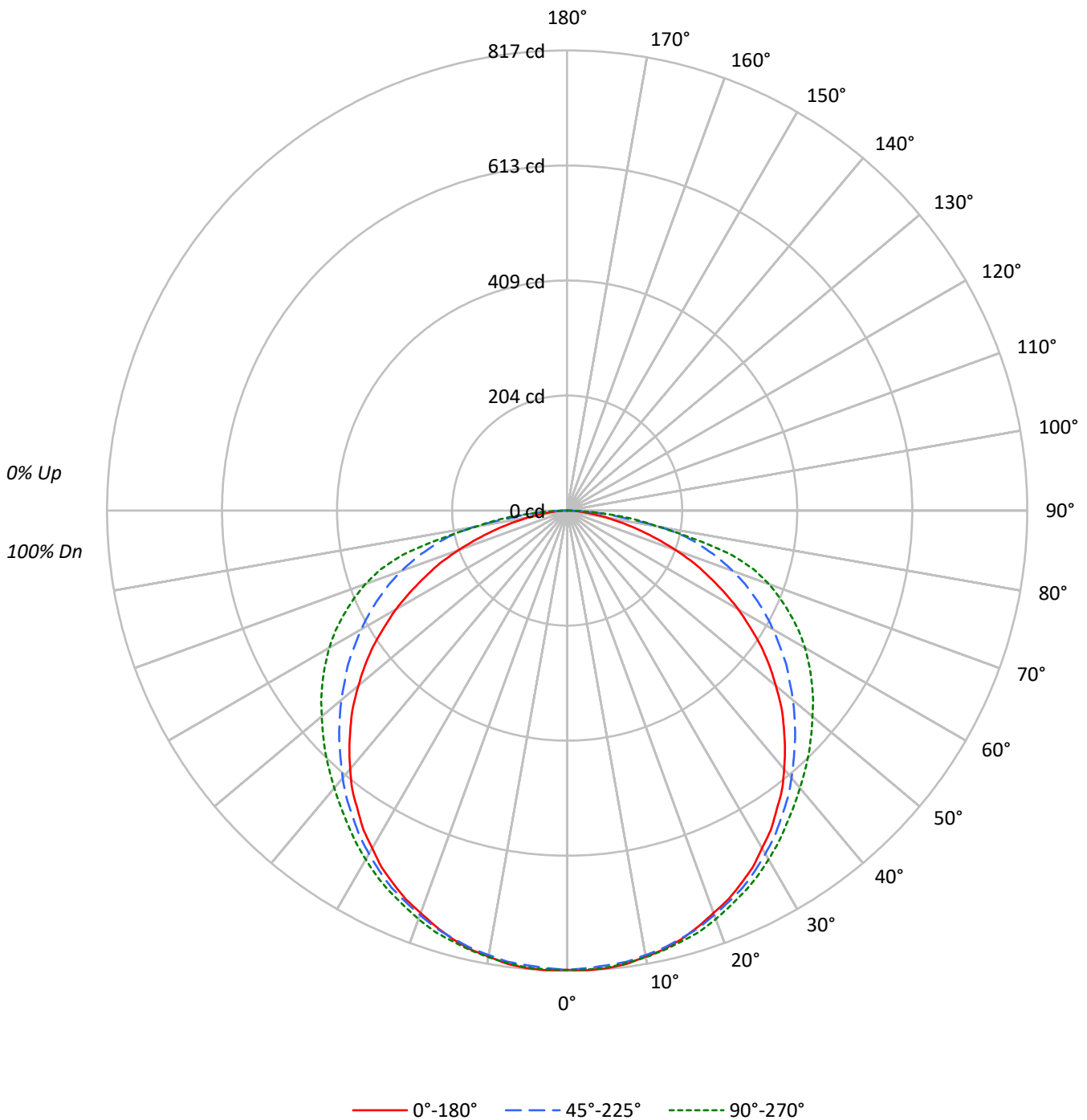
Input Watts (W): 39.339
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1097	1097	1097
5°	1101	1095	1100
10°	1098	1095	1100
15°	1097	1095	1102
20°	1088	1094	1105
25°	1085	1096	1108
30°	1075	1093	1111
35°	1065	1090	1116
40°	1053	1089	1130
45°	1035	1089	1155
50°	1012	1096	1190
55°	987	1114	1243
60°	945	1135	1312
65°	884	1175	1393
70°	804	1230	1498
75°	682	1297	1565
80°	539	1306	1266
85°	397	993	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	3.0
10°-20°	222.6	8.6
20°-30°	340.5	13.1
30°-40°	416.2	16.0
40°-50°	443.6	17.1
50°-60°	424.1	16.4
60°-70°	359.3	13.9
70°-80°	241.5	9.3
80°-90°	68.1	2.6
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°	640.5	24.7
0°-40°	1056.7	40.7
0°-60°	1924.4	74.2
0°-90°	2593.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	816	814	810	814	814	77
15°	787	787	786	792	791	222
25°	731	733	738	745	746	337
35°	648	654	664	677	679	406
45°	544	553	572	597	607	420
55°	421	436	475	512	530	375
65°	278	306	369	418	437	276
75°	131	179	250	292	301	140
85°	26	53	64	70	72	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.5	815.5	815.5	815.5	815.5
2.5°	816.8	816.8	813.0	815.5	815.5
5°	815.5	814.2	810.4	814.2	814.2
7.5°	811.7	810.4	807.8	811.7	810.4
10°	804.0	804.0	801.4	805.2	805.2
12.5°	797.5	796.2	794.9	800.1	798.8
15°	787.2	787.2	785.9	792.4	791.1
17.5°	774.4	775.7	776.9	782.1	783.4
20°	760.2	762.8	764.1	771.8	771.8
22.5°	747.4	748.6	751.2	758.9	758.9
25°	730.6	733.2	738.3	744.8	746.1
27.5°	713.9	715.2	721.6	730.6	731.9
30°	692.0	695.9	703.6	713.9	715.2
32.5°	672.7	676.6	685.6	695.9	698.5
35°	648.3	653.5	663.7	676.6	679.2
37.5°	626.4	630.3	643.2	657.3	661.2
40°	599.4	607.1	620.0	636.7	643.2
42.5°	572.4	580.1	595.6	617.4	625.2
45°	544.1	553.1	572.4	596.9	607.1
47.5°	515.8	526.1	548.0	576.3	587.8
50°	483.7	496.5	523.5	555.7	568.6
52.5°	452.8	468.2	497.8	533.8	550.5
55°	420.6	436.1	474.7	512.0	530.0
57.5°	384.6	405.2	447.6	490.1	509.4
60°	351.2	370.5	421.9	468.2	487.5
62.5°	315.1	340.9	396.2	445.1	464.4
65°	277.8	306.1	369.2	418.1	437.4
67.5°	244.4	275.3	342.2	391.0	410.3
70°	204.5	243.1	312.6	361.5	380.8
72.5°	167.2	209.7	281.7	329.3	347.3
75°	131.2	178.8	249.5	292.0	301.0
77.5°	97.8	147.9	216.1	234.1	227.7
80°	69.5	118.3	168.5	159.5	163.4
82.5°	45.0	90.0	104.2	118.3	122.2
85°	25.7	52.7	64.3	69.5	72.0
87.5°	11.6	19.3	25.7	25.7	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)