

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: P259045

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1500.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

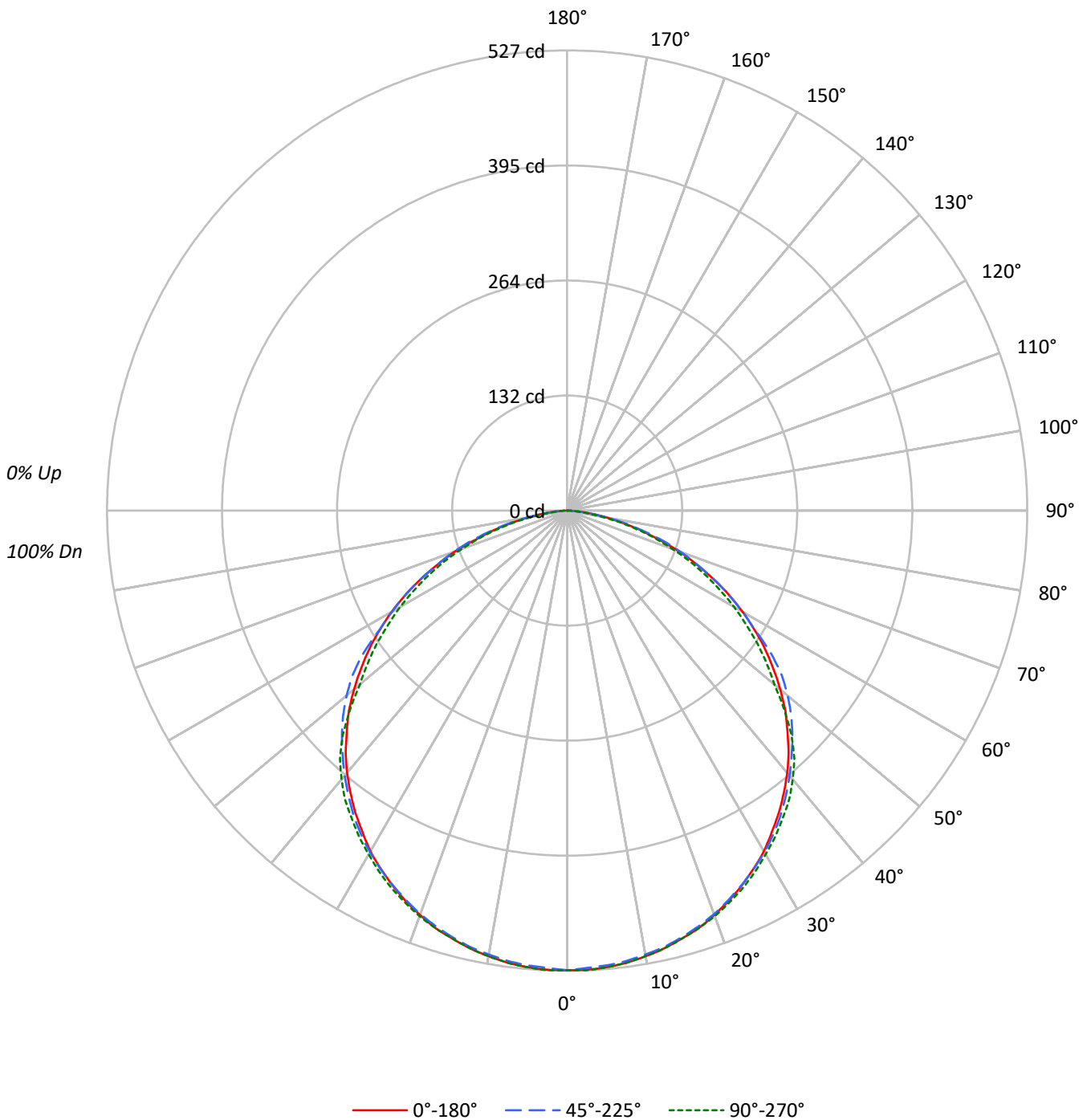
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1417	1417	1417
5°	1418	1412	1418
10°	1416	1411	1416
15°	1414	1410	1414
20°	1411	1408	1416
25°	1406	1404	1415
30°	1400	1404	1413
35°	1389	1400	1414
40°	1378	1392	1412
45°	1357	1388	1383
50°	1334	1380	1297
55°	1299	1337	1249
60°	1250	1247	1189
65°	1171	1177	1113
70°	1076	1087	1007
75°	904	945	861
80°	716	733	606
85°	469	408	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	3.3
10°-20°	143.3	9.6
20°-30°	218.8	14.6
30°-40°	266.9	17.8
40°-50°	279.1	18.6
50°-60°	247.1	16.5
60°-70°	182.0	12.1
70°-80°	94.2	6.3
80°-90°	18.8	1.3
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°	411.9	27.5
0°-40°	678.8	45.3
0°-60°	1205.0	80.3
0°-90°	1500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	525	525	523	525	525	50
15°	508	508	506	508	508	143
25°	474	474	473	476	477	218
35°	423	424	426	430	430	264
45°	357	360	365	368	363	275
55°	277	282	285	270	266	247
65°	184	195	185	178	175	182
75°	87	93	91	85	83	93
85°	15	16	13	12	11	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	526.4	526.4	526.4	526.4	526.4
2.5°	526.4	526.4	524.3	526.4	526.9
5°	524.9	524.9	522.8	524.9	524.9
7.5°	522.3	521.8	520.3	522.3	522.3
10°	518.2	518.2	516.2	518.8	518.2
12.5°	513.7	513.2	512.1	514.2	513.7
15°	507.6	507.6	506.1	508.1	507.6
17.5°	501.5	501.0	499.4	501.5	501.5
20°	492.8	492.3	491.8	493.9	494.4
22.5°	483.7	483.2	482.7	485.7	485.7
25°	473.5	473.5	473.0	476.1	476.6
27.5°	462.4	462.4	462.9	466.9	466.4
30°	450.7	450.7	451.7	454.7	454.7
32.5°	436.4	437.5	439.5	443.1	443.1
35°	422.7	423.7	426.3	430.3	430.3
37.5°	407.5	409.0	411.5	416.6	417.6
40°	392.2	393.3	396.3	401.9	401.9
42.5°	375.5	376.5	380.6	386.1	385.1
45°	356.7	359.7	364.8	367.9	363.3
47.5°	338.9	340.9	348.0	344.5	336.9
50°	318.6	322.6	329.7	317.0	309.9
52.5°	297.7	302.3	309.9	292.1	288.1
55°	276.9	282.5	285.0	270.3	266.2
57.5°	254.6	260.6	255.6	246.9	242.9
60°	232.2	239.3	231.7	223.6	221.0
62.5°	208.8	217.0	208.3	201.2	197.6
65°	183.9	195.1	184.9	177.8	174.8
67.5°	159.5	171.2	160.6	154.5	152.4
70°	136.7	143.3	138.2	132.1	128.0
72.5°	109.2	115.8	114.8	108.2	105.7
75°	86.9	93.0	90.9	85.4	82.8
77.5°	64.5	71.1	69.1	62.5	61.5
80°	46.2	50.8	47.3	41.2	39.1
82.5°	29.0	32.5	27.9	23.4	22.4
85°	15.2	16.3	13.2	11.7	11.2
87.5°	5.1	5.6	5.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)