

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: P259046

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259046
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1587.0 lumens
Efficiency: N/A
Efficacy: 87.1 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

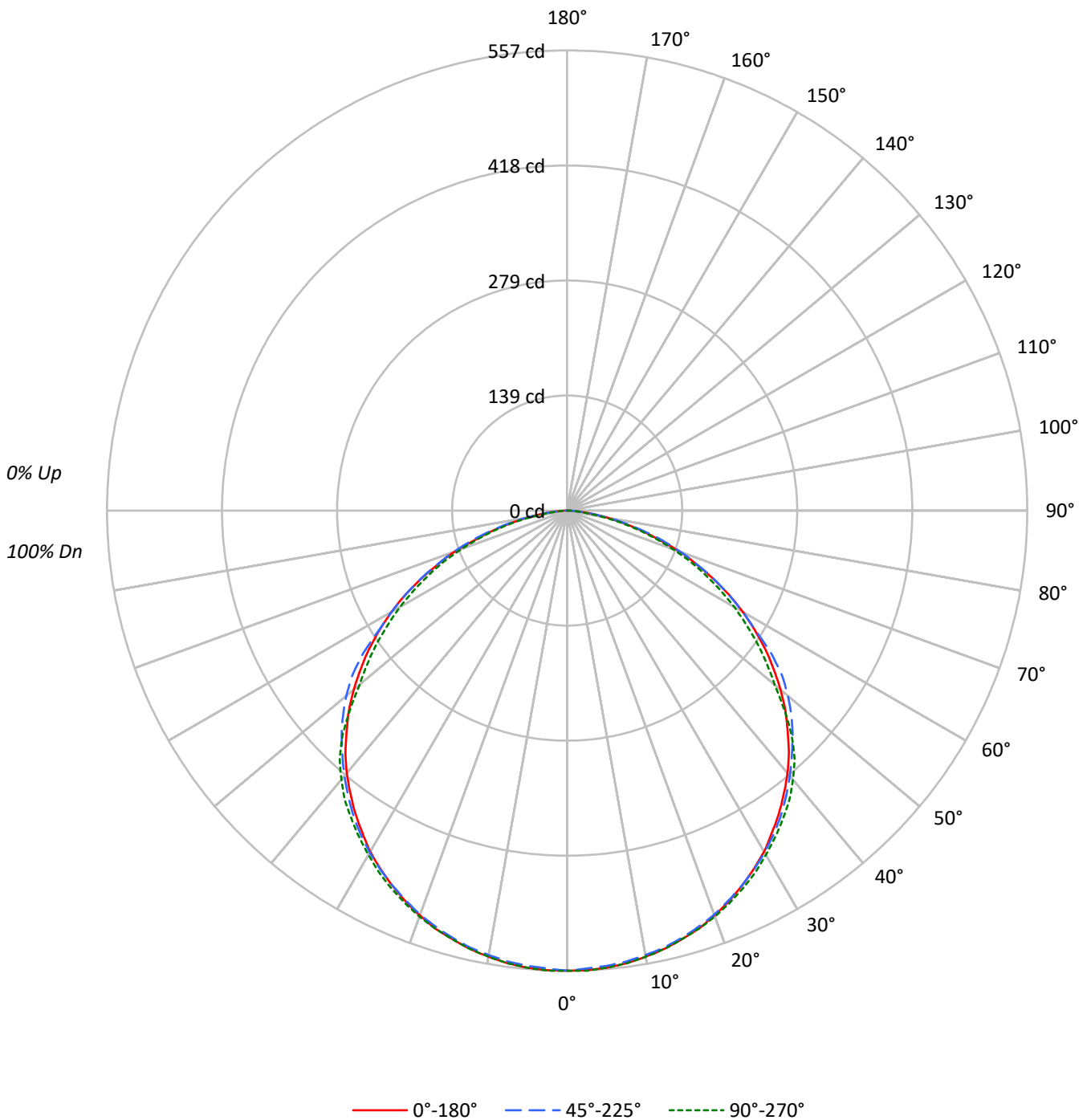
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1499	1499	1499
5°	1500	1494	1500
10°	1498	1492	1498
15°	1496	1492	1496
20°	1493	1490	1498
25°	1488	1486	1497
30°	1482	1485	1495
35°	1469	1482	1496
40°	1458	1473	1494
45°	1436	1469	1463
50°	1411	1461	1373
55°	1375	1415	1322
60°	1322	1319	1258
65°	1239	1246	1177
70°	1138	1150	1066
75°	955	1000	911
80°	758	775	642
85°	497	432	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.3
10°-20°	151.6	9.6
20°-30°	231.5	14.6
30°-40°	282.4	17.8
40°-50°	295.3	18.6
50°-60°	261.5	16.5
60°-70°	192.5	12.1
70°-80°	99.7	6.3
80°-90°	19.9	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°	435.8	27.5
0°-40°	718.2	45.3
0°-60°	1275.0	80.3
0°-90°	1587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	555	555	553	555	555	53
15°	537	537	535	538	537	152
25°	501	501	500	504	504	231
35°	447	448	451	455	455	280
45°	377	381	386	389	384	291
55°	293	299	302	286	282	261
65°	195	206	196	188	185	193
75°	92	98	96	90	88	98
85°	16	17	14	12	12	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.9	556.9	556.9	556.9	556.9
2.5°	556.9	556.9	554.8	556.9	557.4
5°	555.3	555.3	553.1	555.3	555.3
7.5°	552.6	552.1	550.5	552.6	552.6
10°	548.3	548.3	546.2	548.8	548.3
12.5°	543.5	542.9	541.9	544.0	543.5
15°	537.0	537.0	535.4	537.6	537.0
17.5°	530.6	530.0	528.4	530.6	530.6
20°	521.4	520.9	520.4	522.5	523.0
22.5°	511.8	511.2	510.7	513.9	513.9
25°	501.0	501.0	500.5	503.7	504.2
27.5°	489.2	489.2	489.7	494.0	493.5
30°	476.8	476.8	477.9	481.1	481.1
32.5°	461.8	462.8	465.0	468.7	468.7
35°	447.2	448.3	451.0	455.3	455.3
37.5°	431.1	432.7	435.4	440.8	441.9
40°	415.0	416.1	419.3	425.2	425.2
42.5°	397.3	398.3	402.6	408.5	407.5
45°	377.4	380.6	386.0	389.2	384.4
47.5°	358.5	360.7	368.2	364.5	356.4
50°	337.0	341.3	348.9	335.4	327.9
52.5°	315.0	319.8	327.9	309.1	304.8
55°	293.0	298.9	301.6	286.0	281.7
57.5°	269.3	275.8	270.4	261.3	257.0
60°	245.7	253.2	245.1	236.5	233.8
62.5°	220.9	229.5	220.4	212.9	209.1
65°	194.6	206.4	195.7	188.1	184.9
67.5°	168.8	181.2	169.9	163.4	161.3
70°	144.6	151.6	146.2	139.8	135.5
72.5°	115.6	122.6	121.5	114.5	111.8
75°	91.9	98.4	96.2	90.3	87.6
77.5°	68.3	75.3	73.1	66.1	65.0
80°	48.9	53.8	50.0	43.5	41.4
82.5°	30.6	34.4	29.6	24.7	23.7
85°	16.1	17.2	14.0	12.4	11.8
87.5°	5.4	5.9	5.9	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)