

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: P387866

Luminaire Tested: **22CZ2-34HE-SQR-UNV-L930-CD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P387866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-SQR-UNV-L930-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2683.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

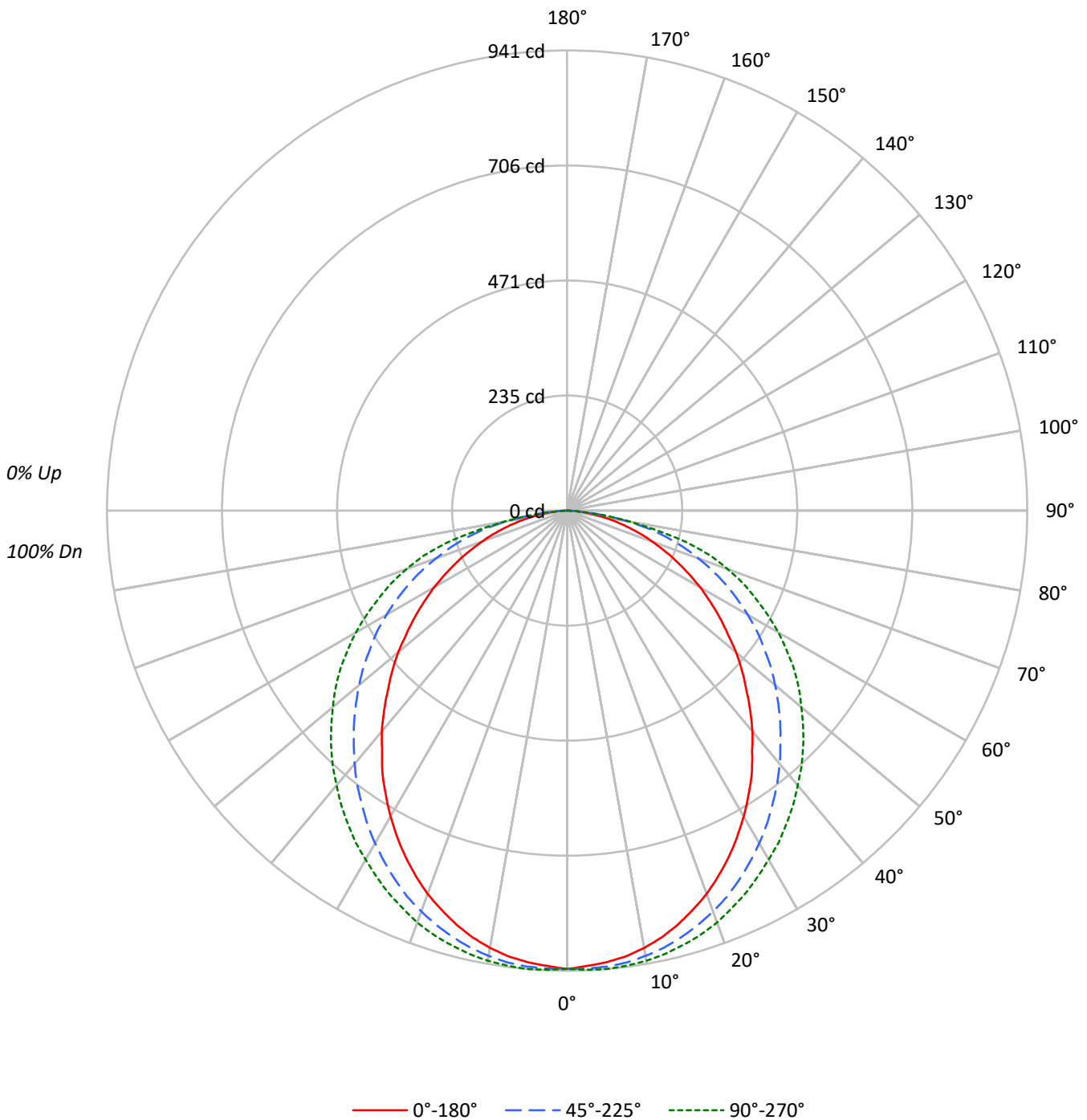
Input Watts (W): 25.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2522	2522	2522
5°	2504	2528	2542
10°	2481	2526	2554
15°	2441	2515	2561
20°	2389	2498	2567
25°	2322	2473	2564
30°	2243	2441	2560
35°	2163	2405	2569
40°	2071	2375	2577
45°	1972	2345	2598
50°	1887	2324	2617
55°	1787	2306	2659
60°	1693	2296	2687
65°	1581	2278	2708
70°	1452	2244	2745
75°	1311	2184	2648
80°	1125	1934	1993
85°	905	1139	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	3.3
10°-20°	254.0	9.5
20°-30°	381.5	14.2
30°-40°	455.1	17.0
40°-50°	470.5	17.5
50°-60°	432.6	16.1
60°-70°	344.3	12.8
70°-80°	210.4	7.8
80°-90°	45.7	1.7
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°	724.4	27.0
0°-40°	1179.5	44.0
0°-60°	2082.5	77.6
0°-90°	2683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	927	930	936	940	941	88
15°	876	886	903	916	919	247
25°	782	801	833	856	863	360
35°	658	686	732	770	782	411
45°	518	555	616	666	683	401
55°	381	423	492	548	567	341
65°	248	290	358	408	425	246
75°	126	163	210	247	255	134
85°	29	36	37	32	29	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.2	937.2	937.2	937.2	937.2
2.5°	932.1	933.4	937.2	939.8	939.8
5°	927.0	929.6	936.0	939.8	941.1
7.5°	919.4	923.2	932.1	937.2	938.5
10°	907.9	913.0	924.5	932.1	934.7
12.5°	893.9	901.6	915.6	925.8	928.3
15°	876.1	886.3	902.9	915.6	919.4
17.5°	855.7	868.5	888.8	904.1	909.2
20°	834.1	846.8	872.3	890.1	896.5
22.5°	808.6	825.2	854.5	874.8	879.9
25°	781.9	801.0	832.8	855.7	863.4
27.5°	752.6	775.5	809.9	837.9	844.3
30°	722.0	746.2	785.7	816.3	823.9
32.5°	690.2	718.2	760.2	794.6	804.8
35°	658.4	686.4	732.2	770.4	781.9
37.5°	621.4	654.5	705.5	745.0	759.0
40°	589.6	621.4	676.2	719.5	733.5
42.5°	553.9	588.3	645.6	692.7	709.3
45°	518.3	555.2	616.3	666.0	682.6
47.5°	485.2	522.1	585.8	638.0	654.5
50°	450.8	489.0	555.2	608.7	625.2
52.5°	413.9	455.9	524.6	578.1	597.2
55°	380.8	422.8	491.5	547.6	566.7
57.5°	346.4	389.7	461.0	514.5	532.3
60°	314.5	356.6	426.6	478.8	499.2
62.5°	280.2	323.4	392.2	443.1	462.3
65°	248.3	290.3	357.8	407.5	425.3
67.5°	216.5	258.5	322.2	369.3	389.7
70°	184.6	226.7	285.2	331.1	348.9
72.5°	156.6	193.6	249.6	291.6	308.2
75°	126.1	163.0	210.1	247.0	254.7
77.5°	98.1	131.2	170.6	187.2	189.7
80°	72.6	98.1	124.8	128.6	128.6
82.5°	48.4	67.5	77.7	79.0	77.7
85°	29.3	35.7	36.9	31.8	29.3
87.5°	10.2	10.2	6.4	3.8	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)