

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: P387466

Luminaire Tested: **14CZ2-35-SQR-UNV-L950-CD1-SWPD1-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: P387466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-580-2)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-SQR-UNV-L950-CD1-SWPD1-U
Description: 1x4 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3048.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

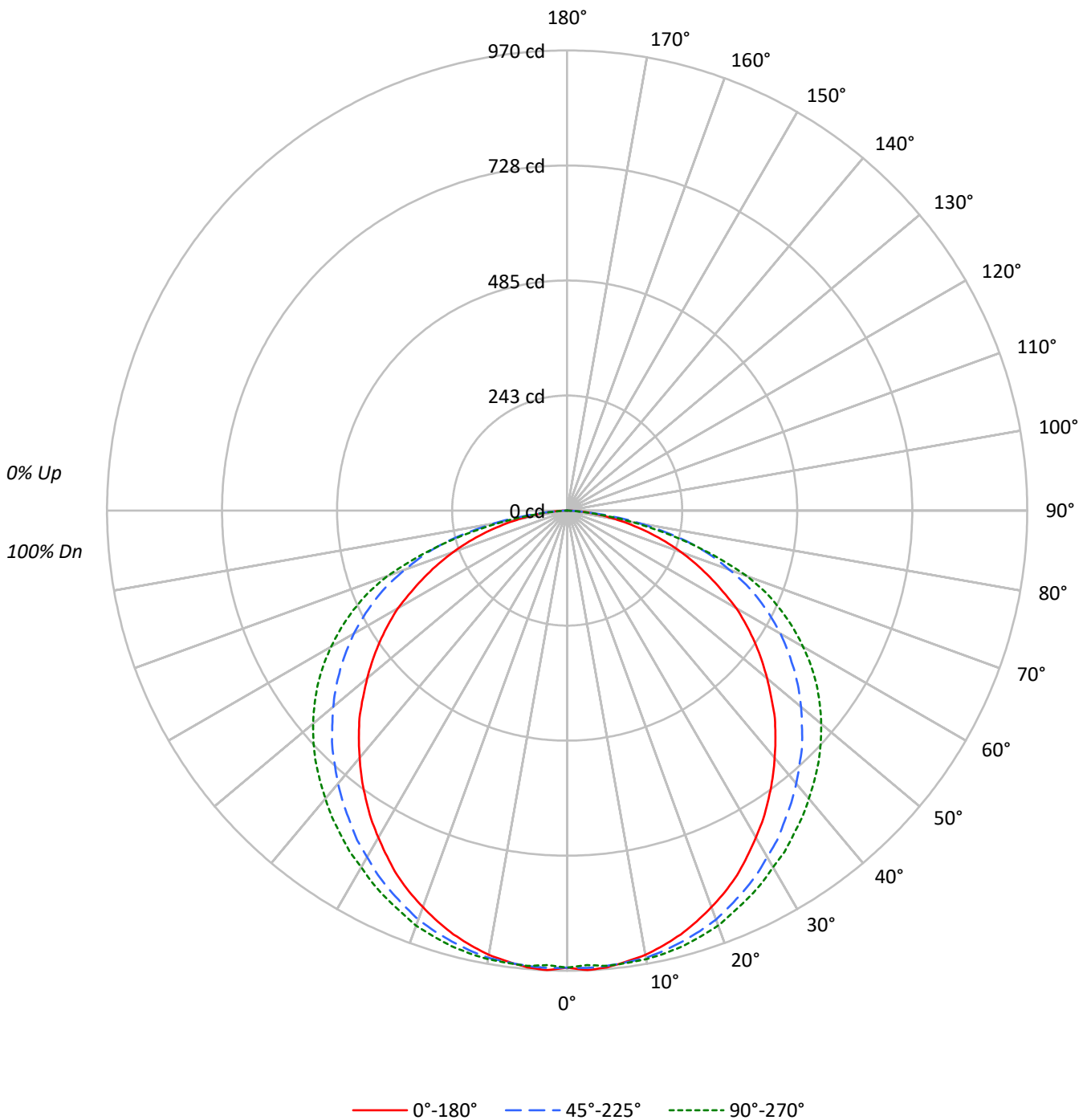
Input Watts (W): 31.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2592	2592	2592
5°	2611	2602	2602
10°	2599	2616	2624
15°	2577	2620	2645
20°	2548	2627	2666
25°	2518	2623	2678
30°	2473	2621	2697
35°	2433	2625	2736
40°	2391	2639	2785
45°	2356	2666	2853
50°	2303	2695	2927
55°	2264	2739	3013
60°	2216	2795	3093
65°	2113	2847	3170
70°	2007	2853	3168
75°	1837	2844	2796
80°	1571	2428	2166
85°	1232	1377	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	3.0
10°-20°	264.5	8.7
20°-30°	404.5	13.3
30°-40°	495.8	16.3
40°-50°	533.2	17.5
50°-60°	512.4	16.8
60°-70°	426.6	14.0
70°-80°	261.8	8.6
80°-90°	58.3	1.9
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°	760.5	24.9
0°-40°	1256.2	41.2
0°-60°	2301.8	75.5
0°-90°	3048.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	966	957	963	963	963	92
15°	925	922	940	946	950	261
25°	848	856	884	894	902	390
35°	741	759	799	820	833	463
45°	619	647	701	733	750	477
55°	482	524	584	624	642	431
65°	332	383	447	484	498	329
75°	177	230	274	272	269	187
85°	40	60	45	31	26	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.4	963.4	963.4	963.4	963.4
2.5°	969.5	960.3	964.9	963.4	958.8
5°	966.5	957.2	963.4	963.4	963.4
7.5°	958.8	951.1	960.3	961.8	961.8
10°	951.1	944.9	957.2	958.8	960.3
12.5°	938.8	934.2	949.6	952.6	955.7
15°	925.0	921.9	940.3	946.5	949.6
17.5°	908.1	909.6	929.6	937.3	940.3
20°	889.6	894.2	917.3	925.0	931.1
22.5°	869.7	875.8	900.4	909.6	915.8
25°	848.1	855.8	883.5	894.2	901.9
27.5°	822.0	834.3	865.0	878.9	886.6
30°	795.9	809.7	843.5	860.4	868.1
32.5°	769.8	785.2	823.6	840.5	852.8
35°	740.6	759.0	799.0	820.5	832.8
37.5°	711.4	732.9	775.9	800.5	814.3
40°	680.7	703.7	751.3	779.0	792.8
42.5°	649.9	676.1	725.2	756.0	771.3
45°	619.2	646.9	700.6	732.9	749.8
47.5°	583.9	617.7	671.4	708.3	725.2
50°	550.1	586.9	643.8	682.2	699.1
52.5°	516.3	554.7	614.6	654.5	671.4
55°	482.5	523.9	583.9	623.8	642.3
57.5°	447.1	490.1	551.6	593.1	610.0
60°	411.8	456.3	519.3	557.7	574.7
62.5°	370.3	422.5	484.0	522.4	537.8
65°	331.9	382.6	447.1	484.0	497.8
67.5°	293.5	345.7	408.7	442.5	454.8
70°	255.1	307.3	362.6	394.9	402.6
72.5°	216.6	268.9	321.1	339.6	336.5
75°	176.7	230.5	273.5	272.0	268.9
77.5°	138.3	190.5	216.6	205.9	201.3
80°	101.4	152.1	156.7	146.0	139.8
82.5°	69.1	109.1	98.3	86.0	79.9
85°	39.9	59.9	44.6	30.7	26.1
87.5°	16.9	15.4	4.6	4.6	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)