

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: P387465

Luminaire Tested: **14CZ2-35-SQR-UNV-L950-CD1-SDWPD1-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: P387465
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-SDWPD1-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: 3011.9 lumens
Efficiency: N/A
Efficacy: 96.5 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

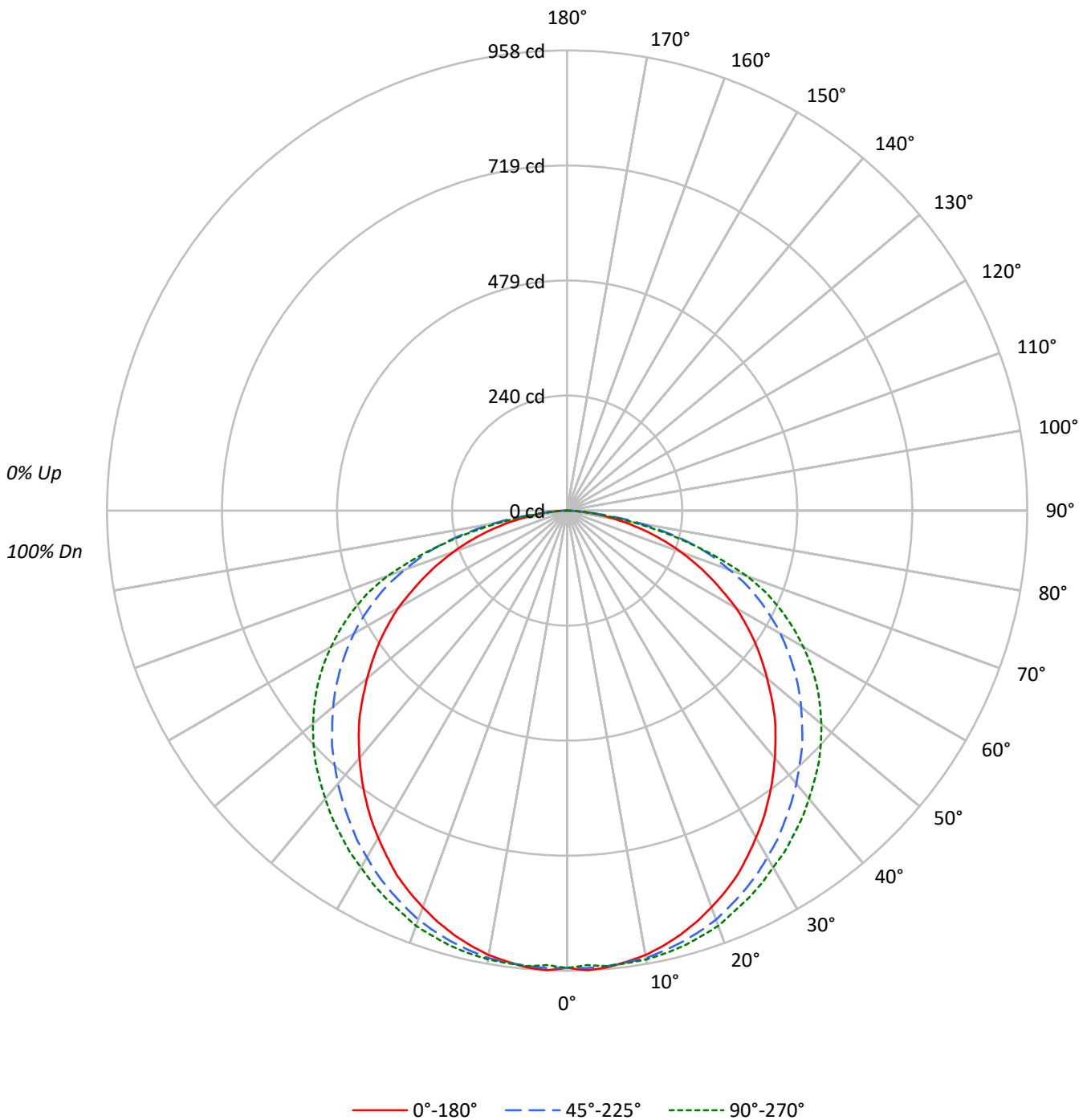
Input Watts (W): 31.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2561	2561	2561
5°	2579	2571	2571
10°	2567	2584	2593
15°	2546	2588	2613
20°	2517	2595	2634
25°	2488	2592	2646
30°	2443	2590	2665
35°	2404	2593	2703
40°	2362	2608	2752
45°	2328	2634	2819
50°	2275	2663	2892
55°	2236	2706	2977
60°	2189	2761	3055
65°	2088	2812	3131
70°	1983	2818	3129
75°	1815	2809	2763
80°	1553	2399	2140
85°	1220	1359	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.0
10°-20°	261.3	8.7
20°-30°	399.6	13.3
30°-40°	489.8	16.3
40°-50°	526.8	17.5
50°-60°	506.2	16.8
60°-70°	421.5	14.0
70°-80°	258.7	8.6
80°-90°	57.6	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°	751.3	24.9
0°-40°	1241.1	41.2
0°-60°	2274.1	75.5
0°-90°	3011.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	955	946	952	952	952	91
15°	914	911	929	935	938	258
25°	838	846	873	884	891	385
35°	732	750	789	811	823	458
45°	612	639	692	724	741	471
55°	477	518	577	616	634	426
65°	328	378	442	478	492	325
75°	175	228	270	269	266	185
85°	40	59	44	30	26	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.8	951.8	951.8	951.8	951.8
2.5°	957.9	948.8	953.3	951.8	947.2
5°	954.8	945.7	951.8	951.8	951.8
7.5°	947.2	939.6	948.8	950.3	950.3
10°	939.6	933.6	945.7	947.2	948.8
12.5°	927.5	922.9	938.1	941.2	944.2
15°	913.8	910.8	929.0	935.1	938.1
17.5°	897.1	898.7	918.4	926.0	929.0
20°	878.9	883.5	906.2	913.8	919.9
22.5°	859.2	865.3	889.5	898.7	904.7
25°	837.9	845.5	872.9	883.5	891.1
27.5°	812.1	824.3	854.6	868.3	875.9
30°	786.3	800.0	833.4	850.1	857.7
32.5°	760.5	775.7	813.6	830.3	842.5
35°	731.7	749.9	789.4	810.6	822.8
37.5°	702.8	724.1	766.6	790.9	804.5
40°	672.5	695.2	742.3	769.6	783.3
42.5°	642.1	667.9	716.5	746.9	762.0
45°	611.8	639.1	692.2	724.1	740.8
47.5°	576.8	610.2	663.4	699.8	716.5
50°	543.4	579.9	636.0	674.0	690.7
52.5°	510.0	548.0	607.2	646.7	663.4
55°	476.7	517.6	576.8	616.3	634.5
57.5°	441.7	484.2	545.0	585.9	602.6
60°	406.8	450.8	513.1	551.0	567.7
62.5°	365.8	417.5	478.2	516.1	531.3
65°	327.9	378.0	441.7	478.2	491.8
67.5°	289.9	341.6	403.8	437.2	449.3
70°	252.0	303.6	358.2	390.1	397.7
72.5°	214.0	265.7	317.3	335.5	332.4
75°	174.6	227.7	270.2	268.7	265.7
77.5°	136.6	188.2	214.0	203.4	198.9
80°	100.2	150.3	154.8	144.2	138.1
82.5°	68.3	107.8	97.2	85.0	78.9
85°	39.5	59.2	44.0	30.4	25.8
87.5°	16.7	15.2	4.6	4.6	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)