

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: P390151

Luminaire Tested: **22CZ2-20VHE-RDP-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: P390151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20VHE-RDP-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1209.3 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

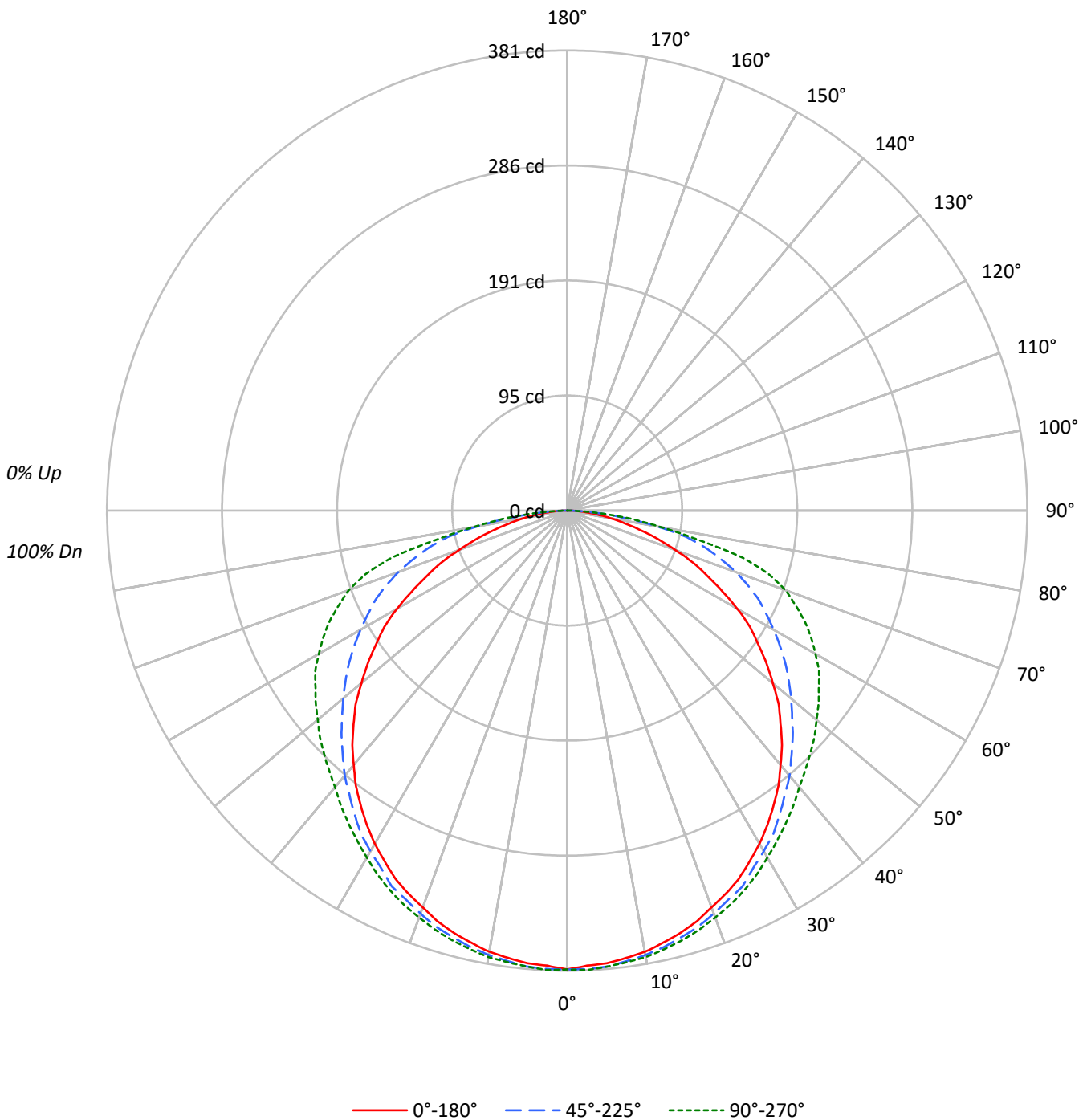
Input Watts (W): 14.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1022	1022	1022
5°	1016	1024	1024
10°	1014	1021	1026
15°	1009	1019	1026
20°	1001	1017	1027
25°	999	1020	1030
30°	990	1012	1031
35°	979	1008	1037
40°	966	1006	1050
45°	951	1005	1083
50°	931	1013	1129
55°	905	1035	1194
60°	876	1063	1278
65°	816	1116	1382
70°	749	1169	1512
75°	657	1230	1563
80°	566	1172	1227
85°	494	852	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	3.0
10°-20°	103.2	8.5
20°-30°	157.4	13.0
30°-40°	192.2	15.9
40°-50°	205.5	17.0
50°-60°	198.4	16.4
60°-70°	170.7	14.1
70°-80°	115.5	9.6
80°-90°	30.5	2.5
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°	296.5	24.5
0°-40°	488.7	40.4
0°-60°	892.6	73.8
0°-90°	1209.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1209.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	380	380	380	380	380	
5°	376	377	379	379	379	36
15°	362	363	366	367	368	102
25°	336	338	343	345	347	155
35°	298	301	307	313	316	186
45°	250	254	264	278	285	193
55°	193	199	221	243	254	173
65°	128	141	175	203	217	127
75°	63	84	118	142	150	68
85°	16	22	28	28	30	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	379.9	379.9	379.9	379.9	379.9
2.5°	377.2	378.1	379.9	379.9	380.8
5°	376.3	377.2	379.0	379.0	379.0
7.5°	373.6	374.5	376.3	377.2	377.2
10°	371.0	371.9	373.6	374.5	375.4
12.5°	366.5	367.4	370.1	371.9	371.9
15°	362.1	363.0	365.6	367.4	368.3
17.5°	356.7	358.5	361.2	363.0	363.8
20°	349.6	351.4	355.0	357.6	358.5
22.5°	343.4	345.2	348.7	351.4	353.2
25°	336.3	338.1	343.4	345.2	346.9
27.5°	327.4	329.2	333.6	337.2	339.8
30°	318.5	320.3	325.6	330.0	331.8
32.5°	308.7	311.4	317.6	321.1	323.8
35°	298.0	300.7	306.9	313.1	315.8
37.5°	287.3	290.0	296.2	304.2	307.8
40°	274.9	278.4	286.5	297.1	298.9
42.5°	263.3	267.8	274.9	287.3	291.8
45°	250.0	254.4	264.2	277.6	284.7
47.5°	237.5	242.0	252.6	268.7	277.6
50°	222.4	228.6	242.0	260.7	269.6
52.5°	208.2	213.5	231.3	251.8	262.4
55°	193.0	199.3	220.6	242.9	254.4
57.5°	179.7	185.0	209.1	234.0	247.3
60°	162.8	169.9	197.5	224.2	237.5
62.5°	145.0	155.7	185.9	213.5	227.7
65°	128.1	140.6	175.3	202.8	217.1
67.5°	113.0	126.3	161.9	191.3	204.6
70°	95.2	112.1	148.6	177.0	192.2
72.5°	79.2	97.9	133.4	161.9	175.3
75°	63.2	83.6	118.3	142.3	150.3
77.5°	48.9	68.5	101.4	108.5	109.4
80°	36.5	54.3	75.6	76.5	79.2
82.5°	24.9	38.3	48.9	53.4	54.3
85°	16.0	22.2	27.6	28.5	30.2
87.5°	7.1	8.0	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)