

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: P388256

Luminaire Tested: **22CZ2-29VHE-UNV-L950-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: P388256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29VHE-UNV-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

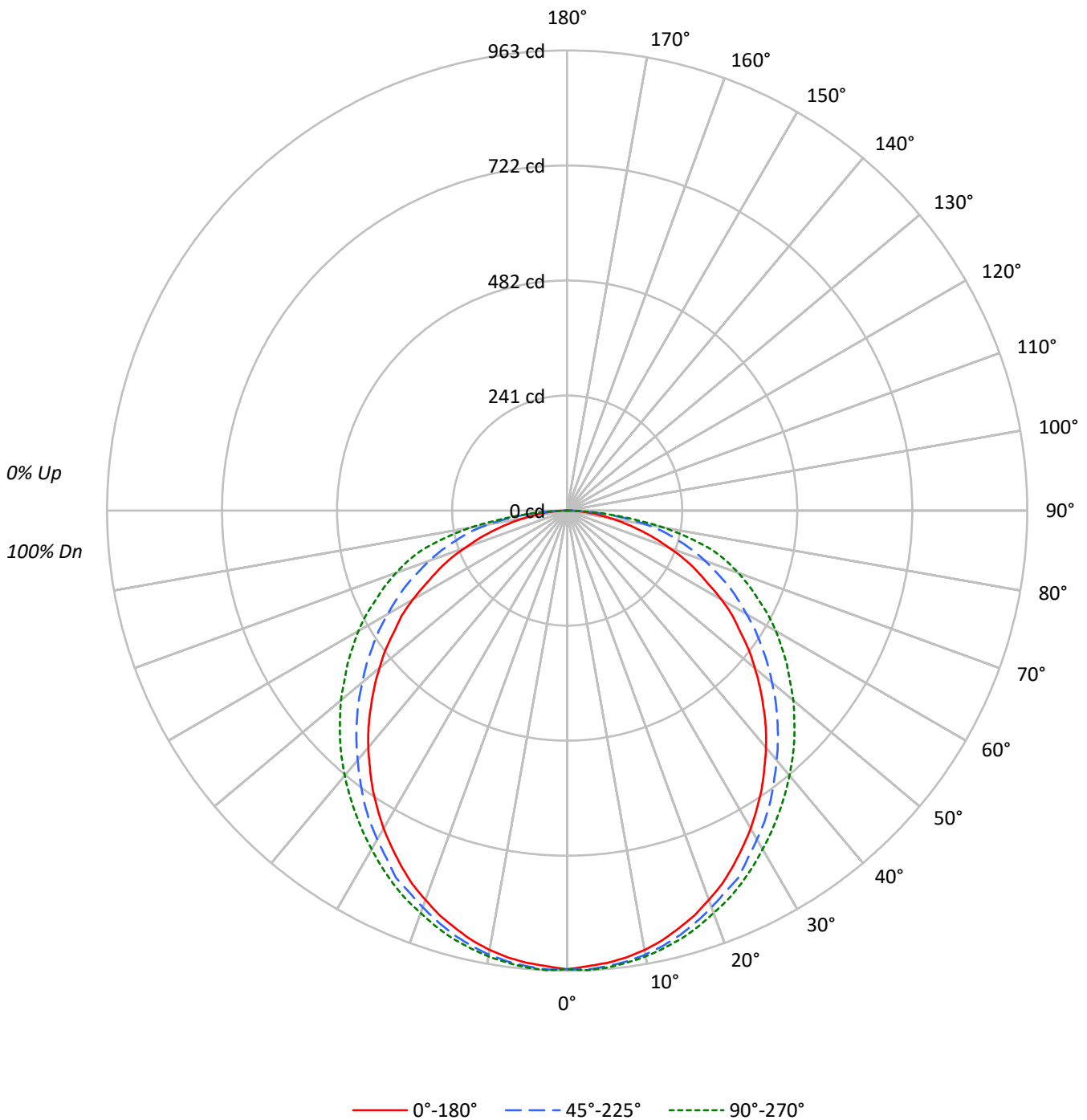
Lumens per Lamp: N/A
Luminaire Lumens: 2823.5 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2583	2583	2583
5°	2567	2586	2593
10°	2551	2578	2589
15°	2520	2559	2582
20°	2483	2530	2566
25°	2438	2516	2558
30°	2387	2469	2543
35°	2332	2437	2538
40°	2274	2396	2543
45°	2210	2369	2559
50°	2146	2344	2588
55°	2073	2334	2633
60°	2011	2333	2714
65°	1911	2371	2813
70°	1782	2415	2995
75°	1632	2499	3236
80°	1421	2605	3186
85°	1244	2316	2532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.2
10°-20°	258.6	9.2
20°-30°	388.2	13.7
30°-40°	463.9	16.4
40°-50°	482.4	17.1
50°-60°	447.1	15.8
60°-70°	366.7	13.0
70°-80°	247.9	8.8
80°-90°	77.9	2.8
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°	737.6	26.1
0°-40°	1201.5	42.6
0°-60°	2131.0	75.5
0°-90°	2823.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	950	952	957	959	960	90
15°	904	909	918	924	927	255
25°	821	828	848	857	861	378
35°	710	720	742	764	772	444
45°	581	592	622	659	672	448
55°	442	456	497	542	561	397
65°	300	317	372	421	442	297
75°	157	183	240	289	311	166
85°	40	56	75	83	82	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.0	960.0	960.0	960.0	960.0
2.5°	954.5	957.3	961.4	962.8	962.8
5°	950.3	951.7	957.3	958.7	960.0
7.5°	943.4	946.1	951.7	953.1	954.5
10°	933.6	936.4	943.4	946.1	947.5
12.5°	921.1	923.9	932.3	936.4	937.8
15°	904.5	908.6	918.4	923.9	926.7
17.5°	887.8	892.0	901.7	910.0	912.8
20°	867.0	876.7	883.6	894.7	896.1
22.5°	846.1	851.7	864.2	875.3	880.8
25°	821.1	828.1	847.5	857.2	861.4
27.5°	794.7	804.4	819.7	835.0	840.6
30°	768.3	775.3	794.7	812.8	818.3
32.5°	739.1	748.9	769.7	787.8	796.1
35°	710.0	719.7	741.9	764.1	772.5
37.5°	678.0	689.1	711.3	737.7	748.9
40°	647.4	655.8	682.2	714.1	723.9
42.5°	615.5	625.2	653.0	687.7	698.8
45°	580.7	591.9	622.4	658.6	672.4
47.5°	547.4	558.5	591.9	628.0	644.7
50°	512.7	526.6	559.9	601.6	618.3
52.5°	479.3	491.8	529.3	572.4	587.7
55°	441.8	455.7	497.4	541.8	561.3
57.5°	411.2	421.0	466.8	512.7	532.1
60°	373.7	386.2	433.5	482.1	504.3
62.5°	333.4	354.3	402.9	452.9	475.2
65°	300.1	316.8	372.3	421.0	441.8
67.5°	265.4	283.4	337.6	389.0	412.6
70°	226.5	250.1	307.0	358.5	380.7
72.5°	191.7	216.7	275.1	325.1	348.7
75°	157.0	183.4	240.4	289.0	311.2
77.5°	123.7	152.8	208.4	245.9	259.8
80°	91.7	119.5	168.1	194.5	205.6
82.5°	63.9	87.5	123.7	137.5	140.3
85°	40.3	55.6	75.0	83.4	82.0
87.5°	18.1	22.2	27.8	30.6	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)