

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: P390388

Luminaire Tested: **22CZ2-44VHE-RDP-UNV-L940-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: P390388
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: 22CZ2-44VHE-RDP-UNV-L940-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2621.4 lumens
Efficiency: N/A
Efficacy: 80.4 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

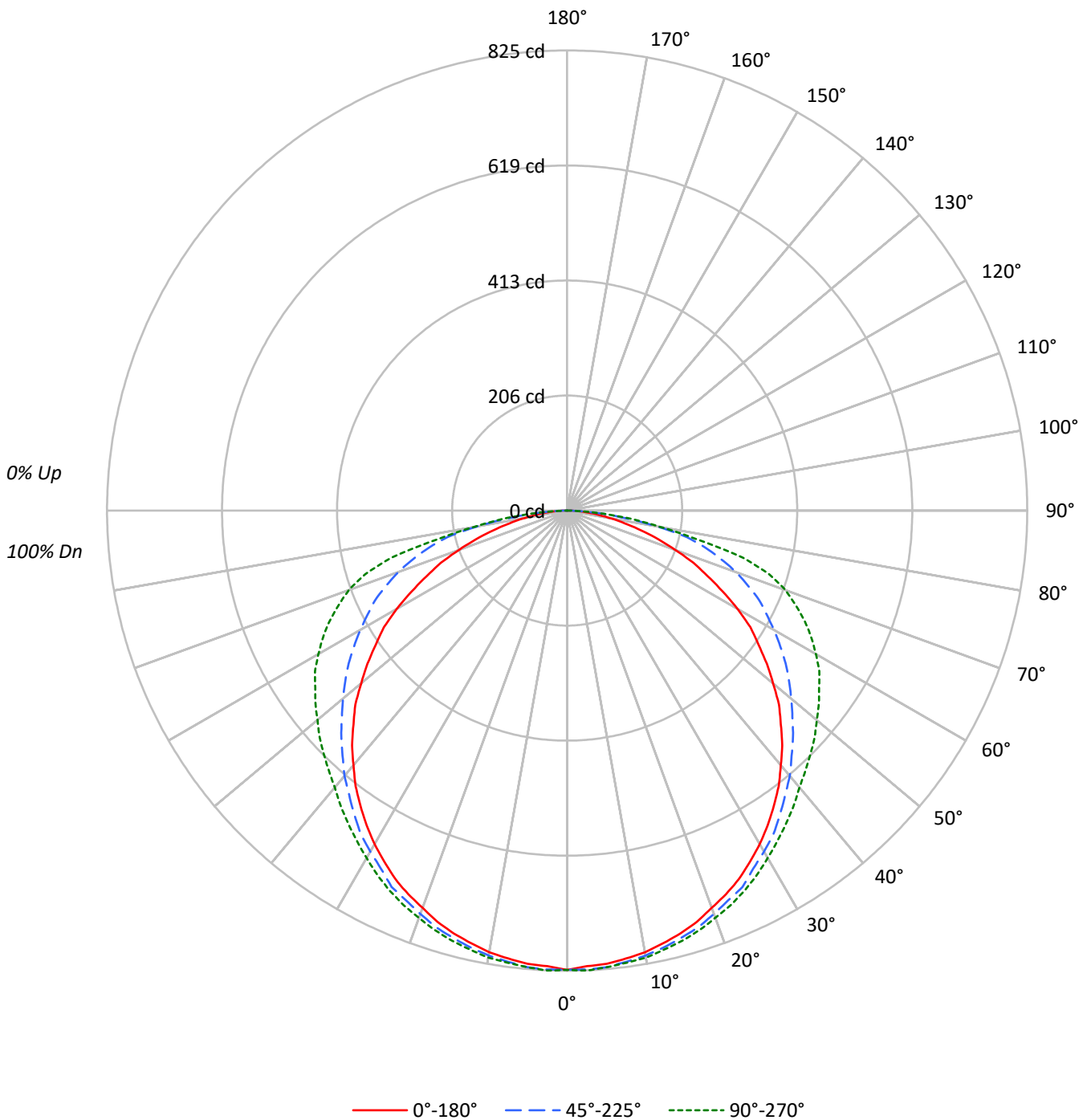
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2216	2216	2216
5°	2203	2219	2219
10°	2197	2213	2224
15°	2187	2208	2224
20°	2170	2203	2225
25°	2164	2210	2233
30°	2145	2193	2235
35°	2122	2186	2249
40°	2093	2181	2276
45°	2062	2179	2348
50°	2018	2196	2446
55°	1963	2244	2587
60°	1899	2304	2771
65°	1768	2419	2996
70°	1623	2533	3277
75°	1423	2667	3388
80°	1226	2540	2659
85°	1071	1846	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.0
10°-20°	223.6	8.5
20°-30°	341.2	13.0
30°-40°	416.6	15.9
40°-50°	445.5	17.0
50°-60°	430.0	16.4
60°-70°	370.1	14.1
70°-80°	250.4	9.6
80°-90°	66.1	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°	642.7	24.5
0°-40°	1059.3	40.4
0°-60°	1934.8	73.8
0°-90°	2621.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	816	818	822	822	822	77
15°	785	787	793	796	798	221
25°	729	733	744	748	752	335
35°	646	652	665	679	685	404
45°	542	552	573	602	617	418
55°	418	432	478	526	552	375
65°	278	305	380	440	470	276
75°	137	181	256	308	326	147
85°	35	48	60	62	66	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.4	823.4	823.4	823.4	823.4
2.5°	817.6	819.6	823.4	823.4	825.4
5°	815.7	817.6	821.5	821.5	821.5
7.5°	809.9	811.9	815.7	817.6	817.6
10°	804.1	806.1	809.9	811.9	813.8
12.5°	794.5	796.4	802.2	806.1	806.1
15°	784.9	786.8	792.6	796.4	798.4
17.5°	773.3	777.1	782.9	786.8	788.7
20°	757.9	761.7	769.4	775.2	777.1
22.5°	744.4	748.2	755.9	761.7	765.6
25°	728.9	732.8	744.4	748.2	752.1
27.5°	709.7	713.5	723.2	730.9	736.6
30°	690.4	694.2	705.8	715.4	719.3
32.5°	669.2	674.9	688.4	696.2	701.9
35°	646.0	651.8	665.3	678.8	684.6
37.5°	622.9	628.7	642.2	659.5	667.2
40°	595.9	603.6	620.9	644.1	647.9
42.5°	570.8	580.4	595.9	622.9	632.5
45°	541.9	551.5	572.7	601.7	617.1
47.5°	514.9	524.5	547.7	582.4	601.7
50°	482.1	495.6	524.5	565.0	584.3
52.5°	451.2	462.8	501.4	545.7	568.9
55°	418.5	432.0	478.2	526.5	551.5
57.5°	389.5	401.1	453.2	507.2	536.1
60°	352.9	368.3	428.1	486.0	514.9
62.5°	314.3	337.5	403.0	462.8	493.7
65°	277.7	304.7	379.9	439.7	470.5
67.5°	244.9	273.8	351.0	414.6	443.5
70°	206.3	243.0	322.0	383.8	416.5
72.5°	171.6	212.1	289.3	351.0	379.9
75°	136.9	181.3	256.5	308.5	325.9
77.5°	106.1	148.5	219.8	235.3	237.2
80°	79.1	117.6	163.9	165.8	171.6
82.5°	54.0	82.9	106.1	115.7	117.6
85°	34.7	48.2	59.8	61.7	65.6
87.5°	15.4	17.4	21.2	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)