

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: P388252

Luminaire Tested: **22CZ2-29VHE-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: P388252
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-L940-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2627.1 lumens
Efficiency: N/A
Efficacy: 121.1 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

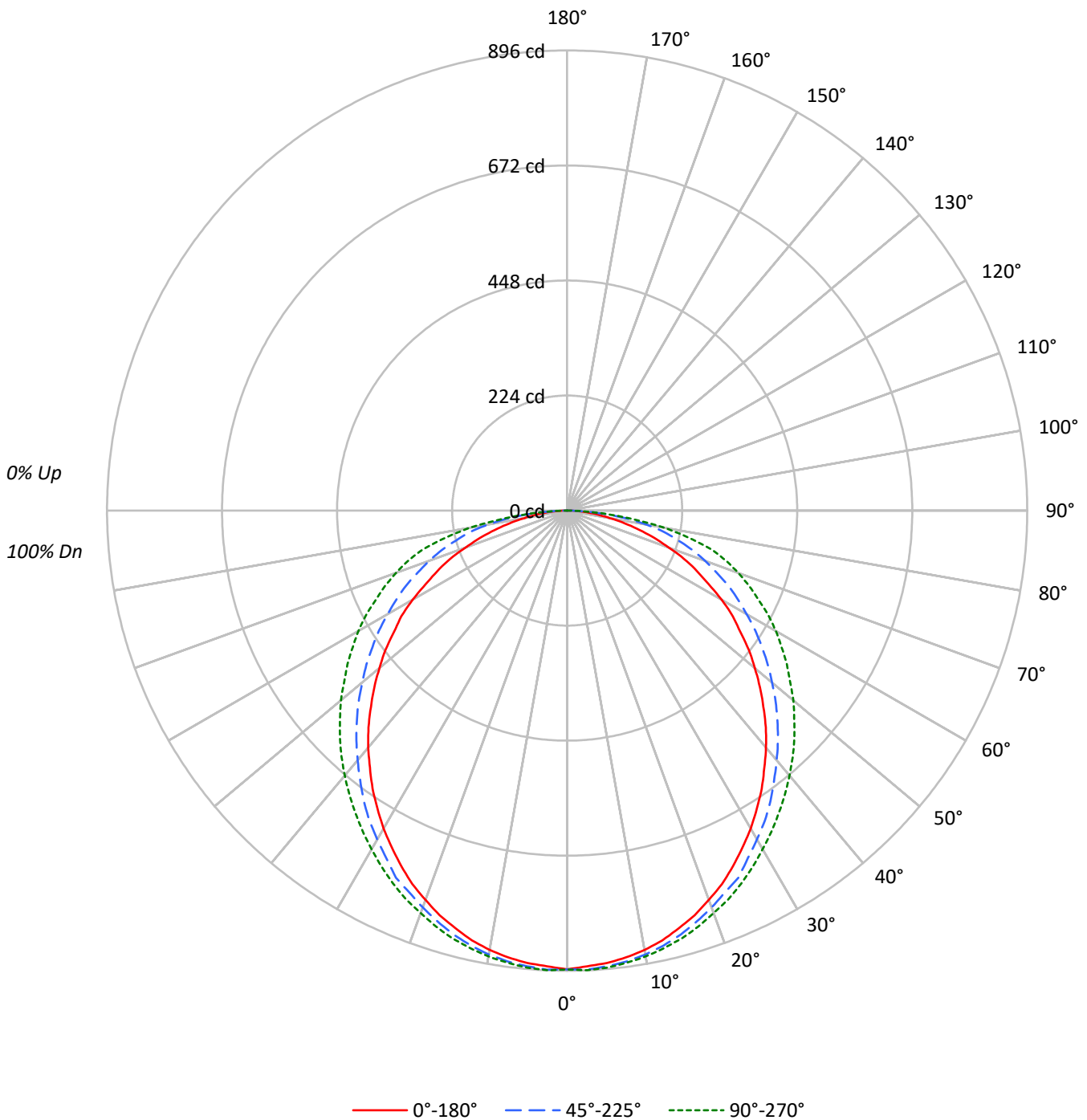
Input Watts (W): 21.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2404	2404	2404
5°	2388	2406	2413
10°	2374	2398	2409
15°	2345	2381	2402
20°	2310	2355	2388
25°	2268	2341	2380
30°	2221	2298	2366
35°	2170	2268	2361
40°	2116	2230	2366
45°	2057	2204	2381
50°	1997	2181	2408
55°	1929	2171	2450
60°	1871	2171	2526
65°	1778	2206	2618
70°	1658	2248	2787
75°	1519	2325	3011
80°	1322	2424	2965
85°	1158	2155	2356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.2
10°-20°	240.6	9.2
20°-30°	361.2	13.7
30°-40°	431.6	16.4
40°-50°	448.8	17.1
50°-60°	416.0	15.8
60°-70°	341.2	13.0
70°-80°	230.7	8.8
80°-90°	72.5	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°	686.3	26.1
0°-40°	1117.9	42.6
0°-60°	1982.8	75.5
0°-90°	2627.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	884	886	891	892	893	84
15°	842	845	854	860	862	237
25°	764	770	789	798	802	352
35°	661	670	690	711	719	413
45°	540	551	579	613	626	417
55°	411	424	463	504	522	369
65°	279	295	346	392	411	276
75°	146	171	224	269	290	155
85°	38	52	70	78	76	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.3	893.3	893.3	893.3	893.3
2.5°	888.1	890.7	894.6	895.8	895.8
5°	884.2	885.5	890.7	892.0	893.3
7.5°	877.7	880.3	885.5	886.8	888.1
10°	868.7	871.3	877.7	880.3	881.6
12.5°	857.1	859.7	867.4	871.3	872.6
15°	841.6	845.4	854.5	859.7	862.2
17.5°	826.0	829.9	839.0	846.7	849.3
20°	806.7	815.7	822.2	832.5	833.8
22.5°	787.3	792.4	804.1	814.4	819.6
25°	764.0	770.5	788.6	797.6	801.5
27.5°	739.4	748.5	762.7	776.9	782.1
30°	714.9	721.3	739.4	756.2	761.4
32.5°	687.7	696.8	716.2	733.0	740.7
35°	660.6	669.6	690.3	711.0	718.7
37.5°	630.8	641.2	661.9	686.4	696.8
40°	602.4	610.2	634.7	664.5	673.5
42.5°	572.7	581.7	607.6	639.9	650.2
45°	540.4	550.7	579.1	612.7	625.7
47.5°	509.3	519.7	550.7	584.3	599.8
50°	477.0	489.9	521.0	559.7	575.3
52.5°	446.0	457.6	492.5	532.6	546.8
55°	411.1	424.0	462.8	504.2	522.3
57.5°	382.6	391.7	434.4	477.0	495.1
60°	347.7	359.4	403.3	448.6	469.3
62.5°	310.3	329.6	374.9	421.4	442.1
65°	279.2	294.7	346.4	391.7	411.1
67.5°	246.9	263.7	314.1	362.0	383.9
70°	210.7	232.7	285.7	333.5	354.2
72.5°	178.4	201.7	256.0	302.5	324.5
75°	146.1	170.6	223.6	268.9	289.6
77.5°	115.1	142.2	193.9	228.8	241.7
80°	85.3	111.2	156.4	181.0	191.3
82.5°	59.5	81.4	115.1	128.0	130.6
85°	37.5	51.7	69.8	77.6	76.3
87.5°	16.8	20.7	25.9	28.4	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)