

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: P230882

Luminaire Tested: **22CZ-LD5-44SE-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44SE-RDP-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2542.0 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

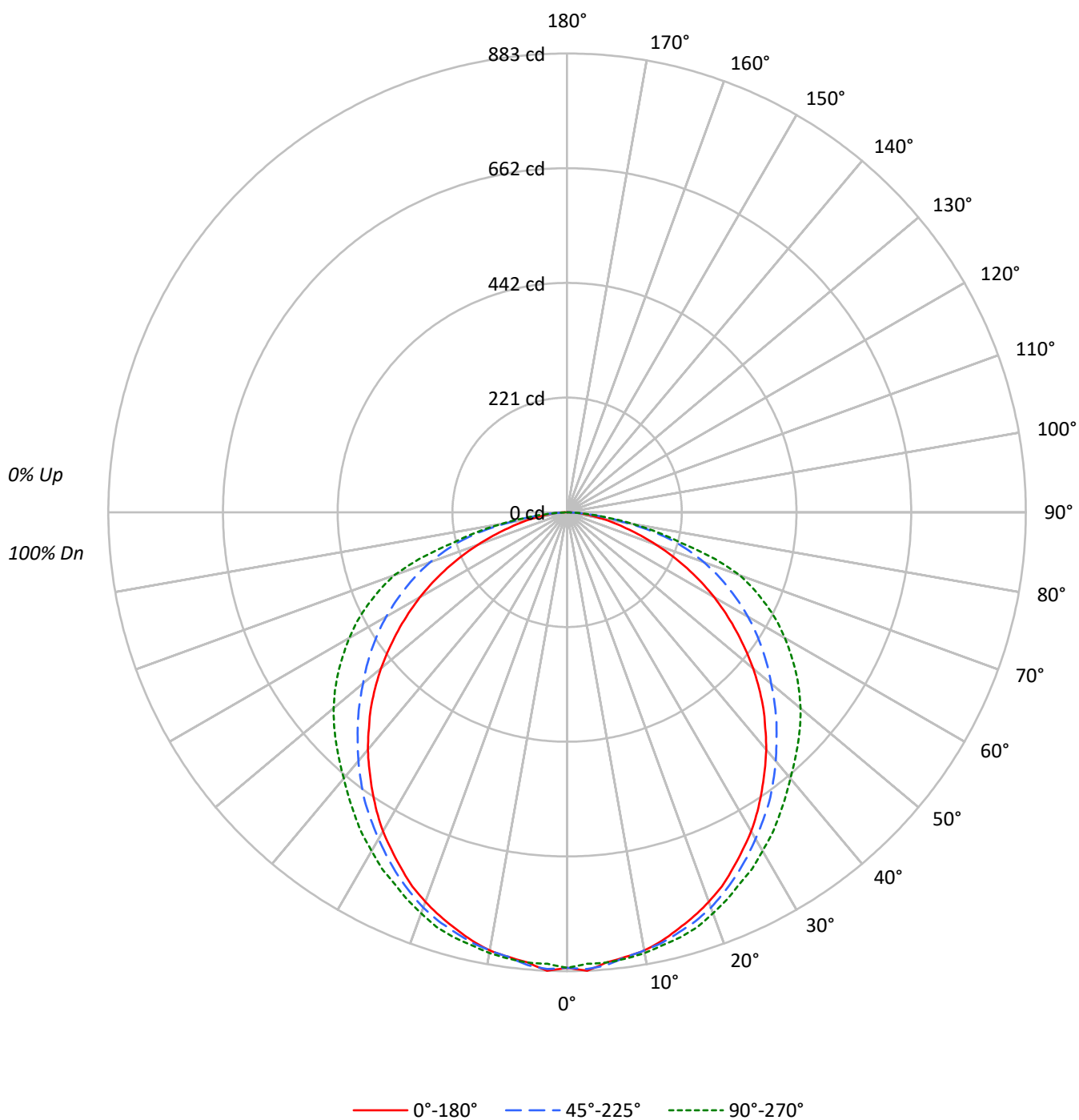
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2358	2358	2358
5°	2349	2363	2349
10°	2340	2340	2353
15°	2311	2330	2357
20°	2284	2318	2351
25°	2244	2289	2339
30°	2202	2255	2338
35°	2147	2230	2340
40°	2095	2196	2349
45°	2034	2168	2391
50°	1957	2147	2455
55°	1863	2154	2524
60°	1759	2165	2606
65°	1622	2176	2699
70°	1437	2201	2782
75°	1220	2195	2370
80°	1013	1765	1974
85°	880	1189	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	3.3
10°-20°	236.2	9.3
20°-30°	355.3	14.0
30°-40°	425.8	16.8
40°-50°	444.1	17.5
50°-60°	413.4	16.3
60°-70°	335.7	13.2
70°-80°	202.3	8.0
80°-90°	46.4	1.8
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°	674.3	26.5
0°-40°	1100.1	43.3
0°-60°	1957.6	77.0
0°-90°	2542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	870	870	875	876	870	83
15°	830	833	836	841	846	234
25°	756	761	771	781	788	348
35°	654	662	679	699	712	409
45°	534	545	570	607	628	411
55°	397	414	459	509	538	355
65°	255	282	342	396	424	252
75°	117	156	211	224	228	127
85°	28	35	38	37	37	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.4	876.4	876.4	876.4	876.4
2.5°	883.1	881.4	879.7	874.7	869.7
5°	869.7	869.7	874.7	876.4	869.7
7.5°	863.0	863.0	863.0	869.7	866.3
10°	856.3	856.3	856.3	861.3	861.3
12.5°	844.5	846.2	847.9	849.6	852.9
15°	829.5	832.8	836.2	841.2	846.2
17.5°	814.4	817.7	824.4	829.5	836.2
20°	797.6	801.0	809.4	814.4	821.1
22.5°	779.2	780.9	790.9	797.6	806.0
25°	755.7	760.8	770.8	780.9	787.6
27.5°	732.3	737.3	749.0	762.4	772.5
30°	708.8	713.8	725.6	742.3	752.4
32.5°	682.0	688.7	702.1	722.2	734.0
35°	653.5	661.9	678.7	698.8	712.2
37.5°	625.0	633.4	651.8	677.0	690.4
40°	596.5	604.9	625.0	651.8	668.6
42.5°	564.7	574.8	596.5	628.4	648.5
45°	534.5	544.6	569.7	606.6	628.4
47.5°	501.0	512.8	541.2	583.1	608.3
50°	467.5	480.9	512.8	559.7	586.5
52.5°	432.3	447.4	486.0	534.5	563.0
55°	397.1	413.9	459.1	509.4	537.9
57.5°	361.9	380.4	430.7	482.6	511.1
60°	326.8	346.9	402.2	455.8	484.3
62.5°	291.6	313.4	372.0	425.6	455.8
65°	254.7	281.5	341.8	395.5	423.9
67.5°	217.8	249.7	311.7	363.6	390.4
70°	182.7	217.8	279.8	328.4	353.6
72.5°	149.1	186.0	246.3	288.2	298.3
75°	117.3	155.8	211.1	224.5	227.9
77.5°	90.5	125.7	167.6	170.9	179.3
80°	65.4	95.5	113.9	124.0	127.4
82.5°	45.2	65.4	75.4	77.1	78.8
85°	28.5	35.2	38.5	36.9	36.9
87.5°	15.1	13.4	11.7	8.4	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)