

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: P230880

Luminaire Tested: **22CZ-LD5-44SE-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230880
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-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2386.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

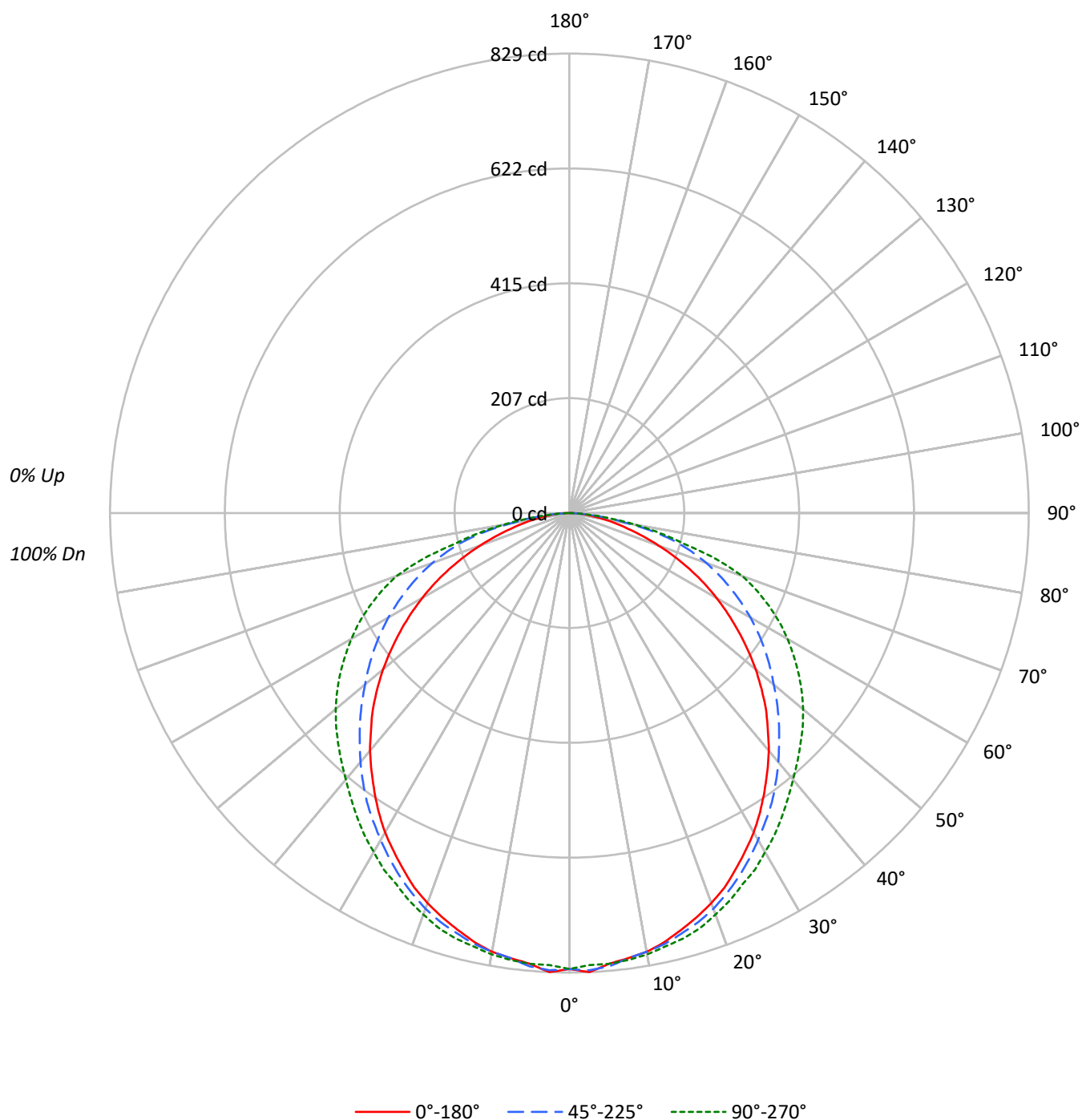
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					30					10					0
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°	2214	2214	2214
5°	2205	2218	2205
10°	2196	2196	2209
15°	2169	2187	2213
20°	2144	2176	2207
25°	2106	2148	2195
30°	2067	2116	2194
35°	2015	2093	2196
40°	1967	2061	2205
45°	1909	2035	2245
50°	1837	2015	2305
55°	1749	2022	2369
60°	1651	2032	2447
65°	1522	2043	2534
70°	1349	2067	2611
75°	1145	2061	2224
80°	950	1658	1852
85°	824	1118	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.3
10°-20°	221.7	9.3
20°-30°	333.5	14.0
30°-40°	399.7	16.8
40°-50°	416.8	17.5
50°-60°	388.1	16.3
60°-70°	315.1	13.2
70°-80°	189.9	8.0
80°-90°	43.5	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°	632.9	26.5
0°-40°	1032.6	43.3
0°-60°	1837.5	77.0
0°-90°	2386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	816	816	821	823	816	78
15°	779	782	785	790	794	220
25°	709	714	724	733	739	327
35°	613	621	637	656	668	384
45°	502	511	535	569	590	386
55°	373	388	431	478	505	333
65°	239	264	321	371	398	236
75°	110	146	198	211	214	119
85°	27	33	36	35	35	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	822.6	822.6	822.6	822.6	822.6
2.5°	828.9	827.3	825.7	821.0	816.3
5°	816.3	816.3	821.0	822.6	816.3
7.5°	810.0	810.0	810.0	816.3	813.2
10°	803.7	803.7	803.7	808.4	808.4
12.5°	792.7	794.3	795.9	797.4	800.6
15°	778.6	781.7	784.9	789.6	794.3
17.5°	764.4	767.6	773.8	778.6	784.9
20°	748.7	751.8	759.7	764.4	770.7
22.5°	731.4	733.0	742.4	748.7	756.5
25°	709.4	714.1	723.5	733.0	739.2
27.5°	687.3	692.1	703.1	715.6	725.1
30°	665.3	670.0	681.0	696.8	706.2
32.5°	640.2	646.4	659.0	677.9	688.9
35°	613.4	621.3	637.0	655.9	668.5
37.5°	586.7	594.5	611.8	635.4	648.0
40°	559.9	567.8	586.7	611.8	627.6
42.5°	530.1	539.5	559.9	589.8	608.7
45°	501.7	511.2	534.8	569.4	589.8
47.5°	470.3	481.3	508.0	547.4	570.9
50°	438.8	451.4	481.3	525.3	550.5
52.5°	405.8	420.0	456.1	501.7	528.5
55°	372.8	388.5	431.0	478.1	504.9
57.5°	339.7	357.0	404.2	453.0	479.7
60°	306.7	325.6	377.5	427.8	454.6
62.5°	273.7	294.1	349.2	399.5	427.8
65°	239.1	264.2	320.9	371.2	397.9
67.5°	204.5	234.4	292.6	341.3	366.5
70°	171.4	204.5	262.7	308.3	331.9
72.5°	140.0	174.6	231.2	270.5	280.0
75°	110.1	146.3	198.2	210.8	213.9
77.5°	84.9	118.0	157.3	160.4	168.3
80°	61.3	89.7	107.0	116.4	119.5
82.5°	42.5	61.3	70.8	72.4	73.9
85°	26.7	33.0	36.2	34.6	34.6
87.5°	14.2	12.6	11.0	7.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)