

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: P230854

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230854
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-LD5-34-RDP-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2031.0 lumens
Efficiency: N/A
Efficacy: 69.1 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

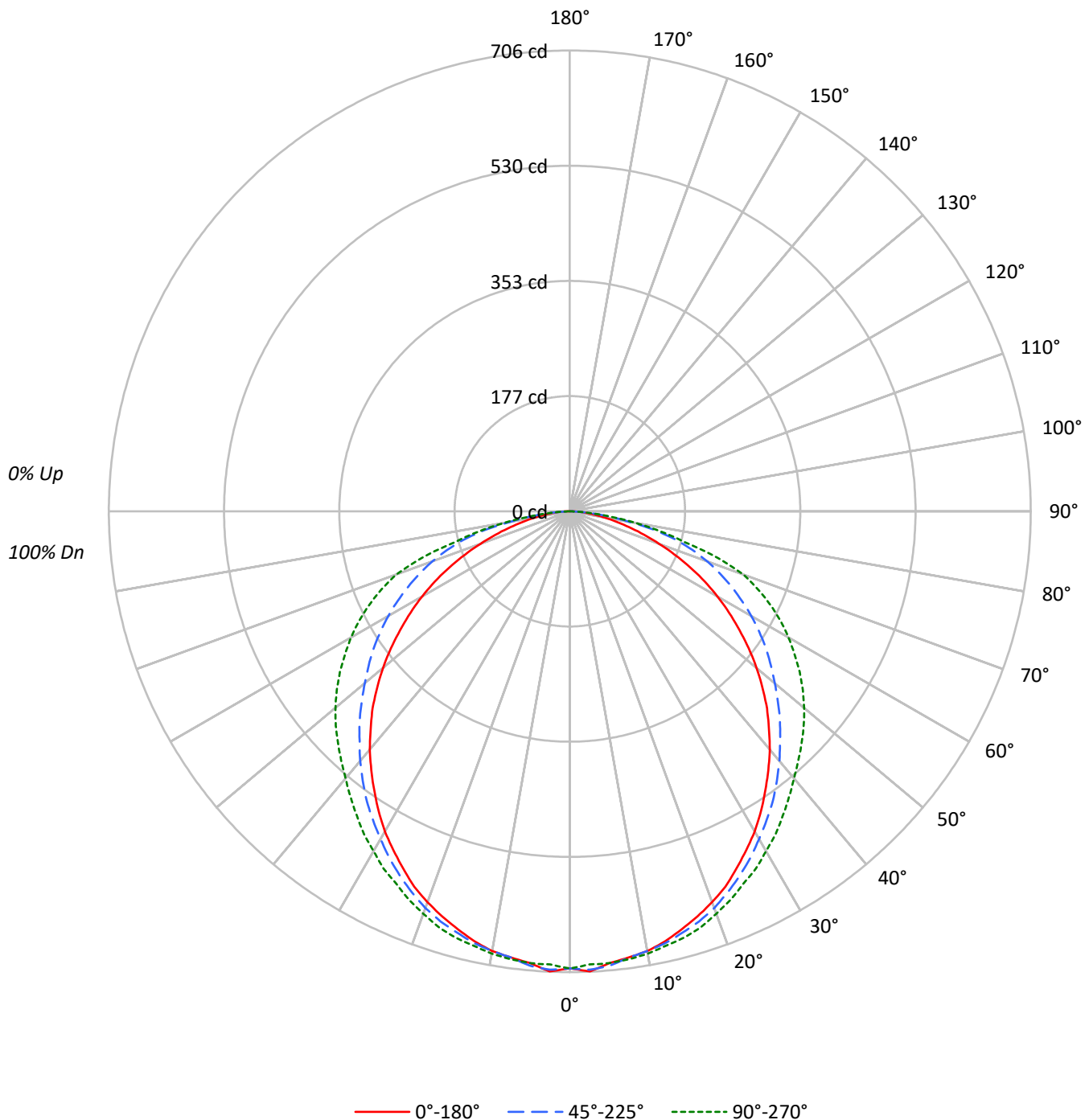
Input Watts (W): 29.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1884	1884	1884
5°	1877	1888	1877
10°	1869	1869	1881
15°	1846	1861	1884
20°	1825	1852	1879
25°	1793	1829	1868
30°	1760	1801	1868
35°	1715	1781	1869
40°	1674	1754	1877
45°	1625	1732	1911
50°	1564	1715	1962
55°	1489	1721	2016
60°	1405	1729	2082
65°	1296	1739	2157
70°	1148	1759	2223
75°	974	1754	1893
80°	809	1410	1578
85°	704	951	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.3
10°-20°	188.7	9.3
20°-30°	283.9	14.0
30°-40°	340.2	16.8
40°-50°	354.8	17.5
50°-60°	330.3	16.3
60°-70°	268.2	13.2
70°-80°	161.6	8.0
80°-90°	37.1	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°	538.8	26.5
0°-40°	879.0	43.3
0°-60°	1564.1	77.0
0°-90°	2031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	695	695	699	700	695	66
15°	663	665	668	672	676	187
25°	604	608	616	624	629	278
35°	522	529	542	558	569	327
45°	427	435	455	485	502	329
55°	317	331	367	407	430	284
65°	204	225	273	316	339	201
75°	94	124	169	179	182	101
85°	23	28	31	30	30	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.2	700.2	700.2	700.2	700.2
2.5°	705.6	704.2	702.9	698.9	694.9
5°	694.9	694.9	698.9	700.2	694.9
7.5°	689.5	689.5	689.5	694.9	692.2
10°	684.1	684.1	684.1	688.2	688.2
12.5°	674.8	676.1	677.5	678.8	681.5
15°	662.7	665.4	668.1	672.1	676.1
17.5°	650.7	653.4	658.7	662.7	668.1
20°	637.3	640.0	646.7	650.7	656.0
22.5°	622.6	623.9	631.9	637.3	644.0
25°	603.8	607.8	615.9	623.9	629.3
27.5°	585.1	589.1	598.5	609.2	617.2
30°	566.3	570.3	579.7	593.1	601.1
32.5°	544.9	550.3	561.0	577.0	586.4
35°	522.1	528.8	542.2	558.3	569.0
37.5°	499.4	506.1	520.8	540.9	551.6
40°	476.6	483.3	499.4	520.8	534.2
42.5°	451.2	459.2	476.6	502.1	518.1
45°	427.1	435.1	455.2	484.7	502.1
47.5°	400.3	409.7	432.4	465.9	486.0
50°	373.5	384.2	409.7	447.2	468.6
52.5°	345.4	357.5	388.3	427.1	449.8
55°	317.3	330.7	366.8	407.0	429.8
57.5°	289.2	303.9	344.1	385.6	408.3
60°	261.1	277.1	321.3	364.2	386.9
62.5°	233.0	250.4	297.2	340.1	364.2
65°	203.5	224.9	273.1	316.0	338.7
67.5°	174.0	199.5	249.0	290.5	311.9
70°	145.9	174.0	223.6	262.4	282.5
72.5°	119.2	148.6	196.8	230.3	238.3
75°	93.7	124.5	168.7	179.4	182.1
77.5°	72.3	100.4	133.9	136.6	143.3
80°	52.2	76.3	91.0	99.1	101.8
82.5°	36.1	52.2	60.2	61.6	62.9
85°	22.8	28.1	30.8	29.5	29.5
87.5°	12.0	10.7	9.4	6.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)