

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: P#

Luminaire Tested: **22CZ-LD5-20-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-S-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2170.3 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

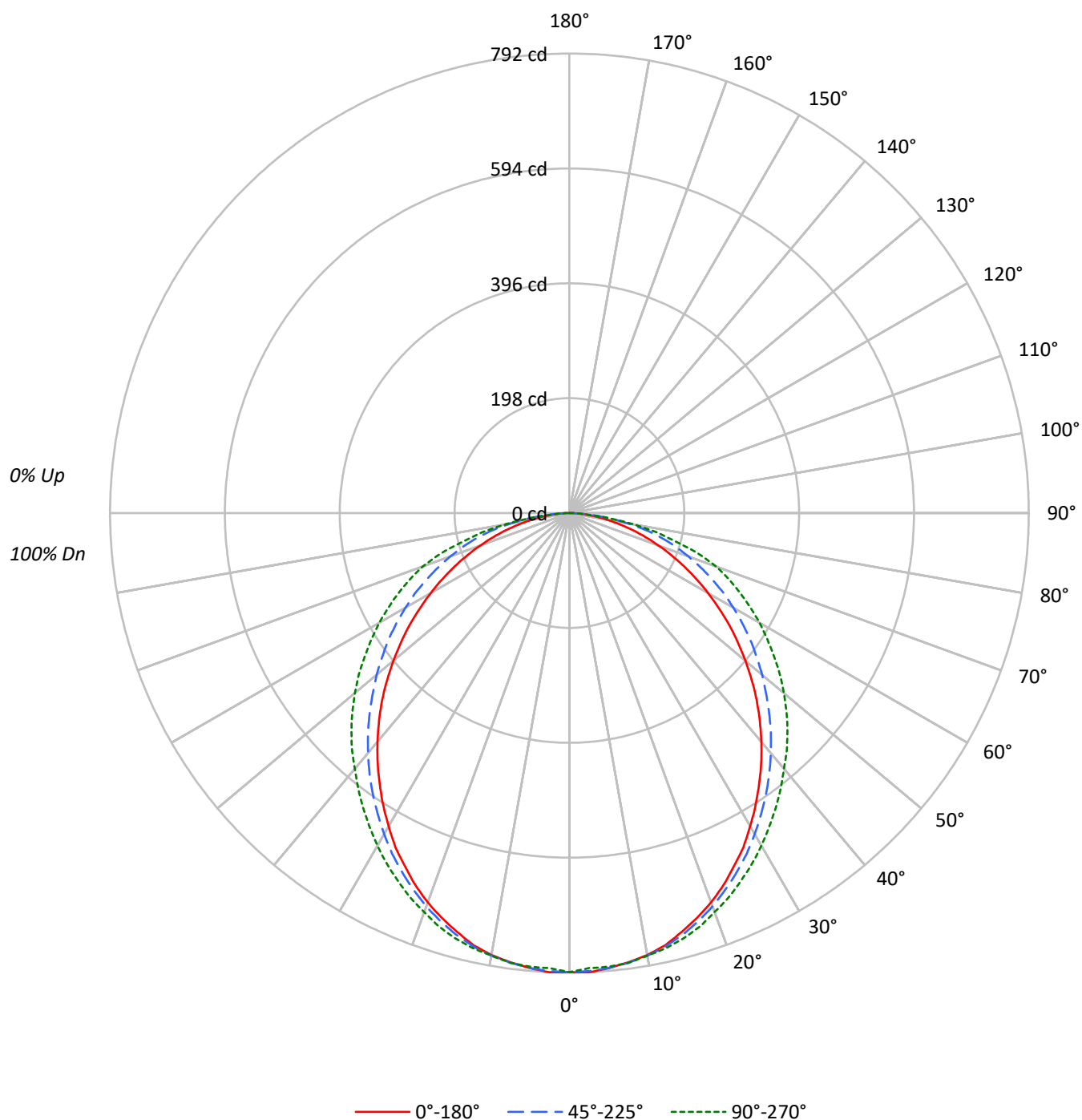
Input Watts (W): 16.38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2129	2129	2129
5°	2117	2113	2111
10°	2095	2090	2098
15°	2055	2058	2086
20°	2008	2014	2058
25°	1948	1963	2030
30°	1883	1908	1999
35°	1810	1850	1968
40°	1736	1791	1940
45°	1655	1730	1927
50°	1565	1674	1907
55°	1474	1621	1885
60°	1368	1565	1874
65°	1259	1504	1864
70°	1132	1436	1860
75°	977	1347	1653
80°	793	1130	1334
85°	532	659	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.4
10°-20°	212.2	9.8
20°-30°	315.2	14.5
30°-40°	371.1	17.1
40°-50°	378.3	17.4
50°-60°	341.2	15.7
60°-70°	268.7	12.4
70°-80°	165.8	7.6
80°-90°	43.0	2.0
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°	602.2	27.7
0°-40°	973.2	44.8
0°-60°	1692.7	78.0
0°-90°	2170.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	787	788	787	786	785	75
15°	747	750	753	757	759	211
25°	671	676	683	694	700	309
35°	570	576	591	610	620	357
45°	457	464	487	516	532	352
55°	337	348	380	415	430	300
65°	219	234	272	306	324	217
75°	112	130	164	182	189	119
85°	27	34	39	36	34	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.2	791.2	791.2	791.2	791.2
2.5°	792.2	792.2	790.2	788.1	784.9
5°	787.0	788.1	787.0	786.0	784.9
7.5°	780.8	781.8	781.8	781.8	781.8
10°	773.5	774.5	774.5	774.5	774.5
12.5°	763.0	764.1	765.1	766.2	768.3
15°	747.4	750.5	752.6	756.8	758.9
17.5°	731.8	734.9	738.0	743.2	747.4
20°	714.1	716.1	721.4	727.6	731.8
22.5°	694.2	697.4	702.6	710.9	717.2
25°	671.3	675.5	682.8	694.2	699.5
27.5°	649.4	652.6	661.9	674.4	681.7
30°	623.4	627.5	639.0	654.6	661.9
32.5°	597.3	602.5	615.0	632.7	641.1
35°	570.2	576.5	591.0	609.8	620.2
37.5°	543.1	549.4	566.0	586.9	598.3
40°	515.0	521.2	540.0	562.9	575.4
42.5°	485.8	493.1	513.9	540.0	554.6
45°	456.6	463.9	486.8	516.0	531.6
47.5°	426.3	434.7	459.7	492.0	507.7
50°	396.1	405.5	433.6	467.0	482.6
52.5°	365.9	376.3	406.5	440.9	457.6
55°	336.7	348.2	380.5	414.9	430.5
57.5°	305.4	319.0	353.4	386.7	404.5
60°	276.2	290.8	326.3	359.6	378.4
62.5°	247.1	262.7	300.2	333.6	351.3
65°	218.9	234.5	272.1	306.5	324.2
67.5°	190.8	208.5	245.0	279.4	297.1
70°	163.7	182.4	217.9	251.2	268.9
72.5°	137.6	156.4	191.8	223.1	233.5
75°	111.5	130.3	163.7	182.4	188.7
77.5°	87.6	105.3	134.5	145.9	154.3
80°	65.7	81.3	102.2	109.5	110.5
82.5°	44.8	58.4	70.9	71.9	70.9
85°	27.1	34.4	38.6	36.5	34.4
87.5°	12.5	13.6	12.5	8.3	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)