

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-LD5-24SE-S-UNV-L830-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-LD5-24SE-S-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2368.7 lumens
Efficiency: N/A
Efficacy: 112.3 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

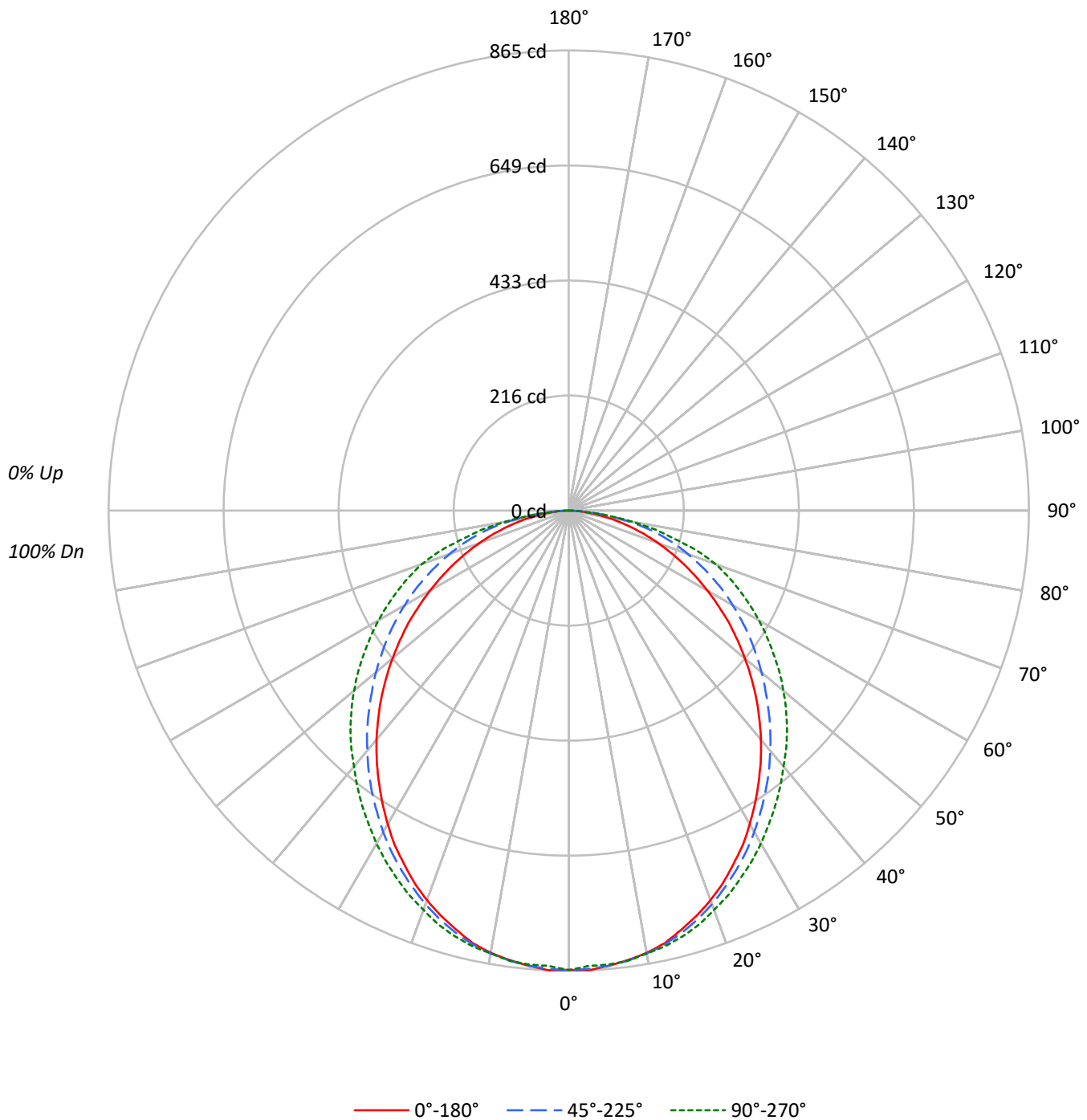
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2324	2324	2324
5°	2310	2306	2304
10°	2287	2281	2290
15°	2243	2246	2277
20°	2192	2198	2246
25°	2126	2142	2215
30°	2055	2082	2182
35°	1975	2019	2149
40°	1895	1954	2117
45°	1806	1888	2103
50°	1708	1827	2081
55°	1609	1769	2058
60°	1493	1708	2046
65°	1374	1642	2035
70°	1235	1567	2031
75°	1066	1469	1805
80°	864	1233	1456
85°	580	719	737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.4
10°-20°	231.7	9.8
20°-30°	344.1	14.5
30°-40°	405.0	17.1
40°-50°	412.9	17.4
50°-60°	372.4	15.7
60°-70°	293.3	12.4
70°-80°	180.9	7.6
80°-90°	47.0	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°	657.3	27.7
0°-40°	1062.3	44.8
0°-60°	1847.5	78.0
0°-90°	2368.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	859	860	859	858	857	82
15°	816	819	822	826	828	230
25°	733	737	745	758	763	338
35°	622	629	645	666	677	389
45°	498	506	531	563	580	384
55°	368	380	415	453	470	328
65°	239	256	297	334	354	237
75°	122	142	179	199	206	130
85°	30	38	42	40	38	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.6	863.6	863.6	863.6	863.6
2.5°	864.7	864.7	862.4	860.1	856.7
5°	859.0	860.1	859.0	857.8	856.7
7.5°	852.2	853.3	853.3	853.3	853.3
10°	844.2	845.3	845.3	845.3	845.3
12.5°	832.9	834.0	835.0	836.2	838.5
15°	815.8	819.2	821.5	826.0	828.3
17.5°	798.7	802.1	805.5	811.2	815.8
20°	779.4	781.7	787.3	794.1	798.7
22.5°	757.7	761.1	766.8	776.0	782.8
25°	732.7	737.3	745.2	757.7	763.4
27.5°	708.8	712.2	722.5	736.2	744.0
30°	680.4	684.9	697.4	714.5	722.5
32.5°	651.9	657.6	671.3	690.6	699.7
35°	622.3	629.2	645.0	665.6	677.0
37.5°	592.8	599.5	617.8	640.6	653.0
40°	562.0	568.9	589.4	614.4	628.0
42.5°	530.2	538.2	560.9	589.4	605.2
45°	498.4	506.3	531.3	563.2	580.3
47.5°	465.3	474.4	501.7	537.0	554.0
50°	432.3	442.6	473.3	509.7	526.8
52.5°	399.4	410.7	443.7	481.3	499.5
55°	367.5	380.0	415.2	452.9	469.9
57.5°	333.4	348.2	385.7	422.1	441.5
60°	301.5	317.4	356.2	392.5	413.0
62.5°	269.6	286.7	327.7	364.0	383.4
65°	238.9	256.0	297.0	334.5	353.9
67.5°	208.2	227.5	267.3	305.0	324.2
70°	178.6	199.1	237.8	274.2	293.6
72.5°	150.2	170.6	209.4	243.5	254.9
75°	121.7	142.2	178.6	199.1	206.0
77.5°	95.6	115.0	146.8	159.3	168.3
80°	71.6	88.7	111.5	119.4	120.6
82.5°	48.9	63.7	77.3	78.5	77.3
85°	29.5	37.5	42.1	39.8	37.5
87.5°	13.7	14.8	13.7	9.1	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)