

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: P230583

Luminaire Tested: **22CZ-LD5-24-S-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230583
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-LD5-24-S-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SMOOTH LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2418.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

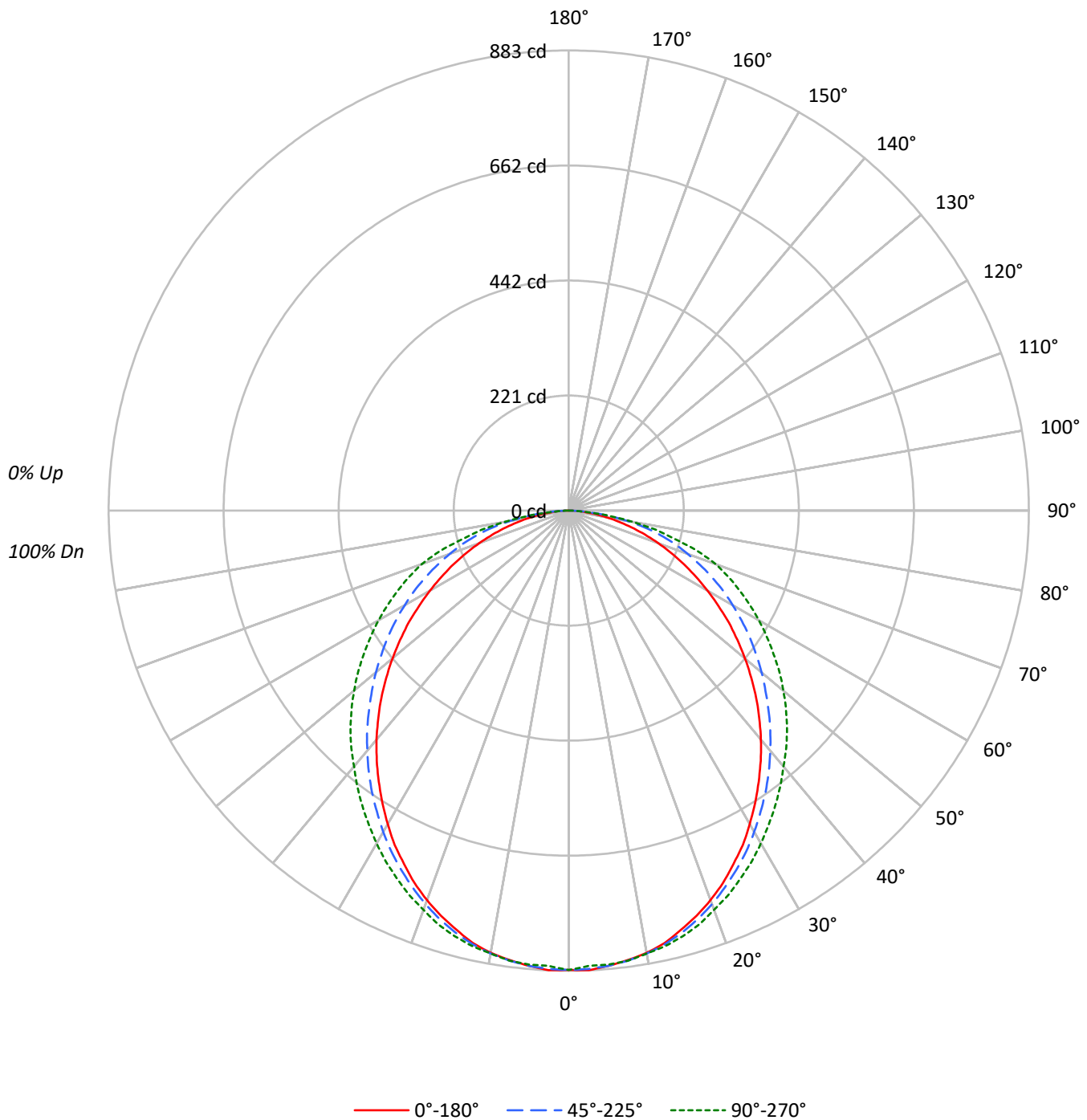
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2372	2372	2372
5°	2369	2369	2362
10°	2355	2358	2358
15°	2320	2336	2355
20°	2278	2302	2335
25°	2221	2259	2314
30°	2158	2212	2292
35°	2087	2163	2270
40°	2015	2113	2252
45°	1936	2064	2254
50°	1847	2022	2251
55°	1760	1989	2251
60°	1657	1956	2269
65°	1553	1930	2300
70°	1434	1910	2357
75°	1292	1895	2185
80°	1134	1764	1908
85°	932	1328	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.4
10°-20°	236.5	9.8
20°-30°	351.2	14.5
30°-40°	413.4	17.1
40°-50°	421.5	17.4
50°-60°	380.1	15.7
60°-70°	299.4	12.4
70°-80°	184.7	7.6
80°-90°	47.9	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°	670.9	27.7
0°-40°	1084.4	44.8
0°-60°	1886.0	78.0
0°-90°	2418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	877	878	877	876	874	83
15°	833	836	838	843	846	235
25°	748	753	761	774	779	345
35°	635	642	658	679	691	397
45°	509	517	542	575	592	392
55°	375	388	424	462	480	335
65°	244	261	303	342	361	242
75°	124	145	182	203	210	133
85°	30	38	43	41	38	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.5	881.5	881.5	881.5	881.5
2.5°	882.7	882.7	880.3	878.0	874.5
5°	876.9	878.0	876.9	875.7	874.5
7.5°	869.9	871.1	871.1	871.1	871.1
10°	861.8	862.9	862.9	862.9	862.9
12.5°	850.1	851.3	852.5	853.6	856.0
15°	832.7	836.2	838.5	843.2	845.5
17.5°	815.3	818.8	822.3	828.1	832.7
20°	795.6	797.9	803.7	810.7	815.3
22.5°	773.5	777.0	782.8	792.1	799.0
25°	747.9	752.6	760.7	773.5	779.3
27.5°	723.6	727.0	737.5	751.4	759.6
30°	694.5	699.2	711.9	729.4	737.5
32.5°	665.5	671.3	685.2	705.0	714.3
35°	635.3	642.3	658.5	679.4	691.0
37.5°	605.1	612.1	630.6	653.9	666.6
40°	573.7	580.7	601.6	627.2	641.1
42.5°	541.2	549.3	572.6	601.6	617.9
45°	508.7	516.8	542.4	574.9	592.3
47.5°	475.0	484.3	512.2	548.2	565.6
50°	441.3	451.8	483.1	520.3	537.7
52.5°	407.7	419.3	452.9	491.3	509.9
55°	375.1	387.9	423.9	462.2	479.7
57.5°	340.3	355.4	393.7	430.9	450.6
60°	307.8	324.0	363.5	400.7	421.6
62.5°	275.3	292.7	334.5	371.6	391.4
65°	243.9	261.3	303.1	341.5	361.2
67.5°	212.5	232.3	272.9	311.3	331.0
70°	182.3	203.2	242.7	279.9	299.6
72.5°	153.3	174.2	213.7	248.5	260.2
75°	124.3	145.2	182.3	203.2	210.2
77.5°	97.6	117.3	149.8	162.6	171.9
80°	73.2	90.6	113.8	121.9	123.1
82.5°	49.9	65.0	79.0	80.1	79.0
85°	30.2	38.3	43.0	40.6	38.3
87.5°	13.9	15.1	13.9	9.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)