

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: P259336

Luminaire Tested: **22CZ-LD5-24-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2253.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

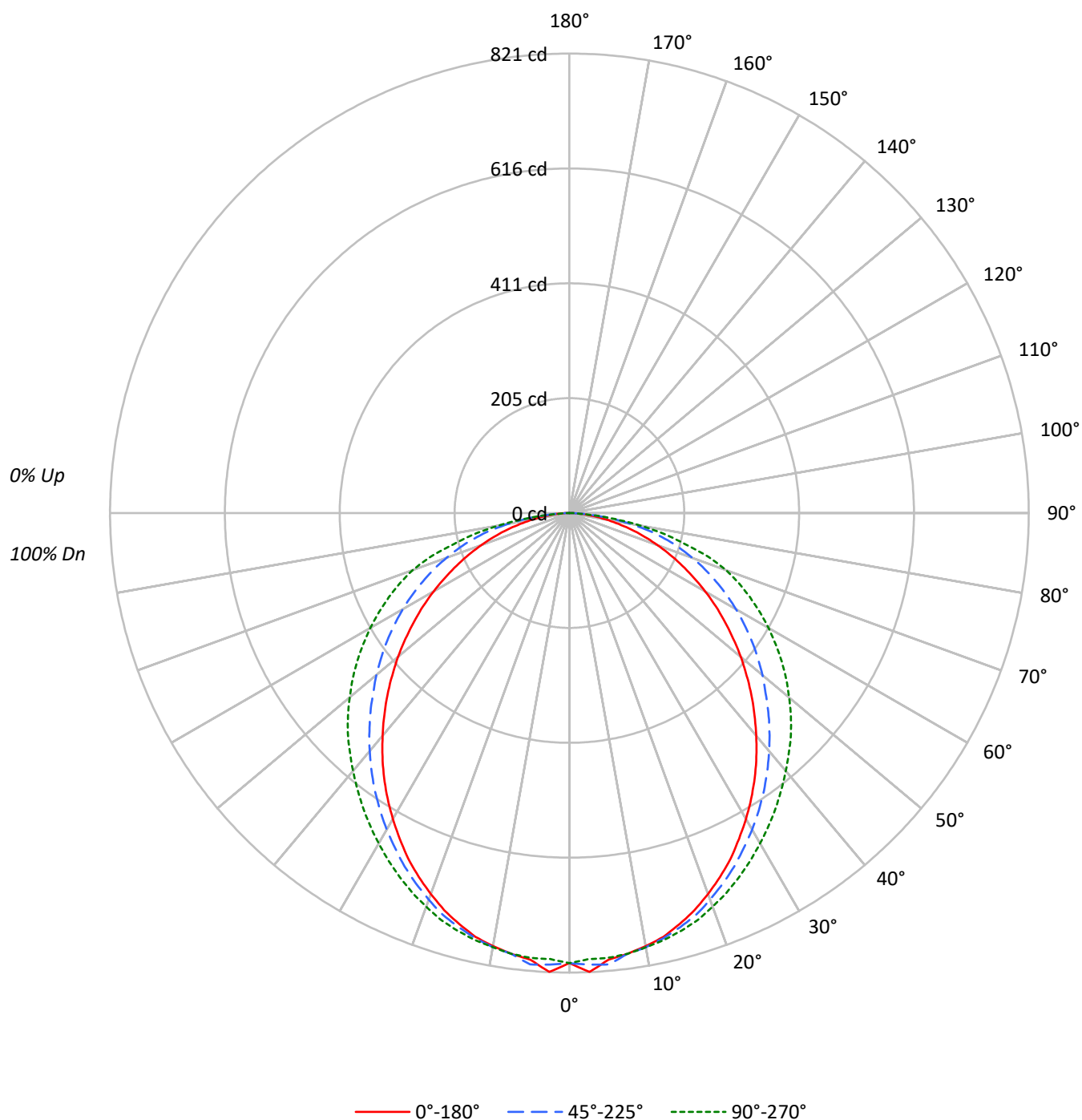
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2164	2164	2164
5°	2163	2187	2155
10°	2146	2152	2152
15°	2118	2133	2152
20°	2074	2105	2143
25°	2023	2069	2131
30°	1961	2029	2118
35°	1897	1990	2113
40°	1824	1951	2113
45°	1751	1914	2131
50°	1674	1885	2146
55°	1593	1866	2174
60°	1510	1851	2211
65°	1416	1841	2267
70°	1319	1836	2345
75°	1196	1834	2221
80°	1035	1698	1970
85°	880	1284	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.4
10°-20°	216.0	9.6
20°-30°	321.4	14.3
30°-40°	380.1	16.9
40°-50°	390.7	17.3
50°-60°	357.0	15.8
60°-70°	285.6	12.7
70°-80°	179.2	8.0
80°-90°	46.7	2.1
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°	613.7	27.2
0°-40°	993.8	44.1
0°-60°	1741.5	77.3
0°-90°	2253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	801	801	810	804	798	76
15°	760	761	766	770	772	214
25°	682	686	697	709	718	313
35°	577	585	606	629	643	361
45°	460	472	503	540	560	355
55°	340	356	398	442	463	304
65°	222	242	289	333	356	221
75°	115	137	176	203	214	122
85°	28	36	42	40	40	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.2	804.2	804.2	804.2	804.2
2.5°	820.6	817.3	807.5	800.9	797.6
5°	800.9	800.9	809.6	804.2	797.6
7.5°	794.3	794.3	794.3	810.7	794.3
10°	785.5	786.6	787.7	794.3	787.7
12.5°	775.7	775.7	777.9	780.1	781.2
15°	760.3	761.4	765.8	770.2	772.4
17.5°	743.9	747.2	752.7	758.2	762.5
20°	724.2	728.6	735.1	743.9	748.3
22.5°	703.4	707.8	716.5	726.4	734.1
25°	681.5	685.8	696.8	708.9	717.6
27.5°	656.3	661.7	674.9	691.3	700.1
30°	631.1	637.6	653.0	671.6	681.5
32.5°	604.8	612.4	630.0	650.8	662.8
35°	577.4	585.1	605.9	628.9	643.1
37.5°	548.9	557.7	580.7	607.0	622.3
40°	519.3	529.2	555.5	584.0	601.5
42.5°	489.7	500.7	529.2	563.1	580.7
45°	460.2	472.2	502.9	540.1	559.9
47.5°	429.5	443.7	475.5	517.1	536.8
50°	399.9	414.1	450.3	493.0	512.7
52.5°	369.2	385.7	424.0	467.8	488.6
55°	339.6	356.1	397.7	441.5	463.4
57.5°	310.1	326.5	370.3	415.2	437.1
60°	280.5	298.0	344.0	387.8	410.9
62.5°	250.9	269.5	316.6	361.5	383.5
65°	222.4	242.1	289.2	333.1	356.1
67.5°	195.0	215.8	261.8	304.6	327.6
70°	167.6	188.4	233.4	275.0	298.0
72.5°	141.3	162.1	206.0	243.2	260.8
75°	115.0	137.0	176.4	202.7	213.6
77.5°	89.8	111.8	145.7	163.2	175.3
80°	66.8	85.5	109.6	122.7	127.1
82.5°	46.0	61.4	76.7	80.0	82.2
85°	28.5	36.2	41.6	40.5	40.5
87.5°	13.1	14.2	12.1	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)