

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: P259245

Luminaire Tested: **22CZ-LD5-24-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259245
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-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2237.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

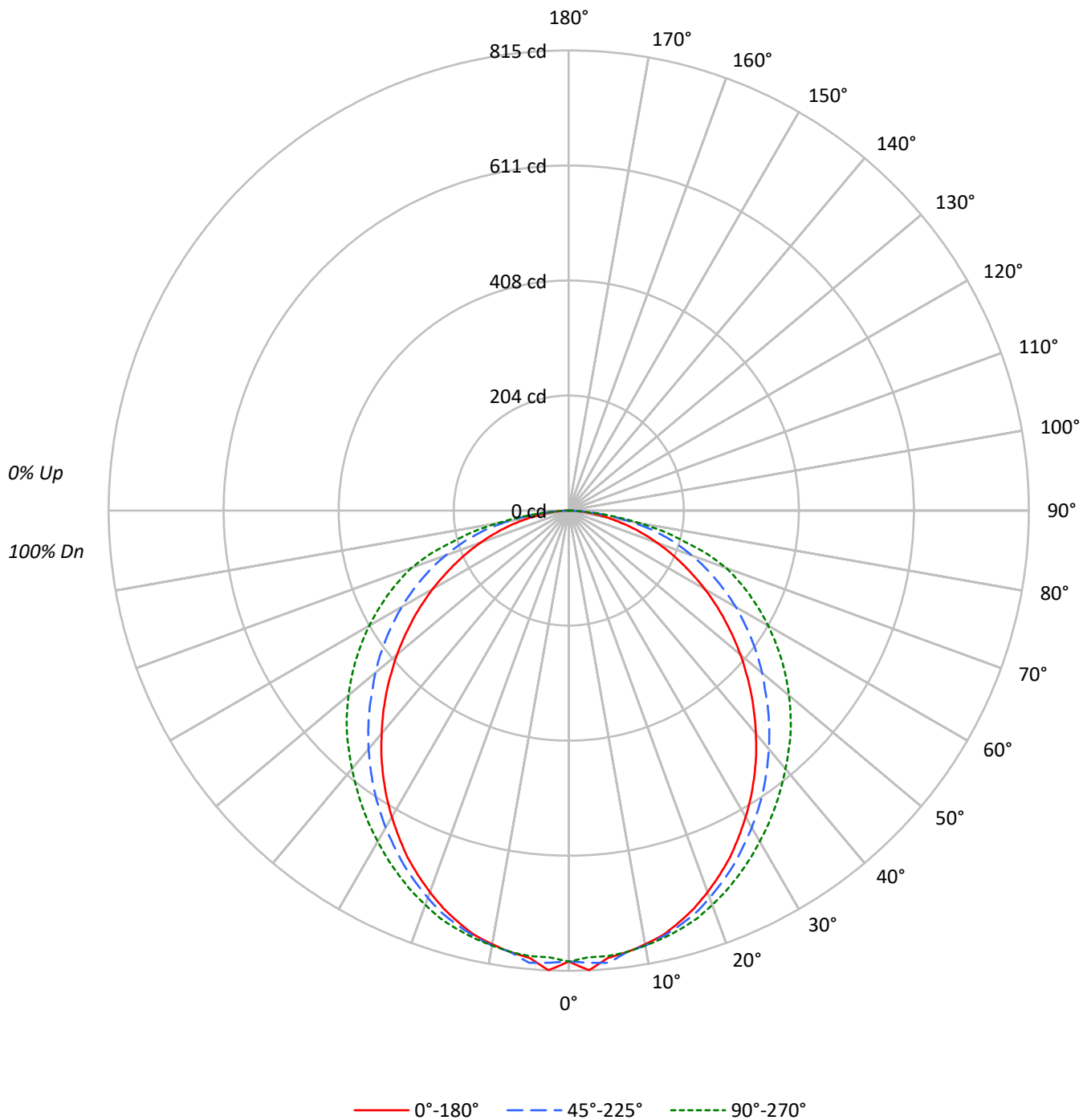
Input Watts (W): 18.034002
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2149	2149	2149
5°	2148	2172	2139
10°	2131	2137	2137
15°	2103	2118	2137
20°	2059	2090	2128
25°	2009	2054	2116
30°	1947	2014	2102
35°	1883	1976	2098
40°	1811	1937	2098
45°	1739	1900	2116
50°	1662	1872	2131
55°	1582	1853	2159
60°	1499	1838	2195
65°	1406	1829	2251
70°	1309	1823	2328
75°	1187	1821	2205
80°	1029	1686	1956
85°	874	1275	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.4
10°-20°	214.5	9.6
20°-30°	319.1	14.3
30°-40°	377.4	16.9
40°-50°	387.9	17.3
50°-60°	354.5	15.8
60°-70°	283.6	12.7
70°-80°	178.0	8.0
80°-90°	46.3	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°	609.3	27.2
0°-40°	986.8	44.1
0°-60°	1729.1	77.3
0°-90°	2237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	795	795	804	798	792	76
15°	755	756	760	765	767	213
25°	677	681	692	704	712	311
35°	573	581	602	624	639	358
45°	457	469	499	536	556	352
55°	337	354	395	438	460	302
65°	221	240	287	331	354	219
75°	114	136	175	201	212	121
85°	28	36	41	40	40	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.5	798.5	798.5	798.5	798.5
2.5°	814.8	811.5	801.7	795.2	791.9
5°	795.2	795.2	803.9	798.5	791.9
7.5°	788.7	788.7	788.7	805.0	788.7
10°	780.0	781.1	782.1	788.7	782.1
12.5°	770.2	770.2	772.4	774.5	775.6
15°	754.9	756.0	760.4	764.7	766.9
17.5°	738.6	741.9	747.3	752.8	757.1
20°	719.0	723.4	729.9	738.6	743.0
22.5°	698.4	702.7	711.4	721.2	728.8
25°	676.6	681.0	691.9	703.8	712.5
27.5°	651.6	657.0	670.1	686.4	695.1
30°	626.6	633.1	648.3	666.8	676.6
32.5°	600.5	608.1	625.5	646.2	658.1
35°	573.3	580.9	601.6	624.4	638.6
37.5°	545.0	553.7	576.5	602.7	617.9
40°	515.6	525.4	551.5	579.8	597.2
42.5°	486.3	497.1	525.4	559.1	576.5
45°	456.9	468.9	499.3	536.3	555.9
47.5°	426.4	440.6	472.1	513.5	533.0
50°	397.1	411.2	447.1	489.5	509.1
52.5°	366.6	382.9	421.0	464.5	485.2
55°	337.2	353.5	394.9	438.4	460.1
57.5°	307.9	324.2	367.7	412.3	434.0
60°	278.5	295.9	341.6	385.1	407.9
62.5°	249.1	267.6	314.4	359.0	380.7
65°	220.8	240.4	287.2	330.7	353.5
67.5°	193.6	214.3	260.0	302.4	325.3
70°	166.4	187.1	231.7	273.0	295.9
72.5°	140.3	161.0	204.5	241.5	258.9
75°	114.2	136.0	175.1	201.2	212.1
77.5°	89.2	111.0	144.7	162.1	174.1
80°	66.4	84.9	108.8	121.8	126.2
82.5°	45.7	60.9	76.1	79.4	81.6
85°	28.3	35.9	41.3	40.2	40.2
87.5°	13.1	14.1	12.0	8.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)