

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: P277325

Luminaire Tested: **22CZ2-24HE-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

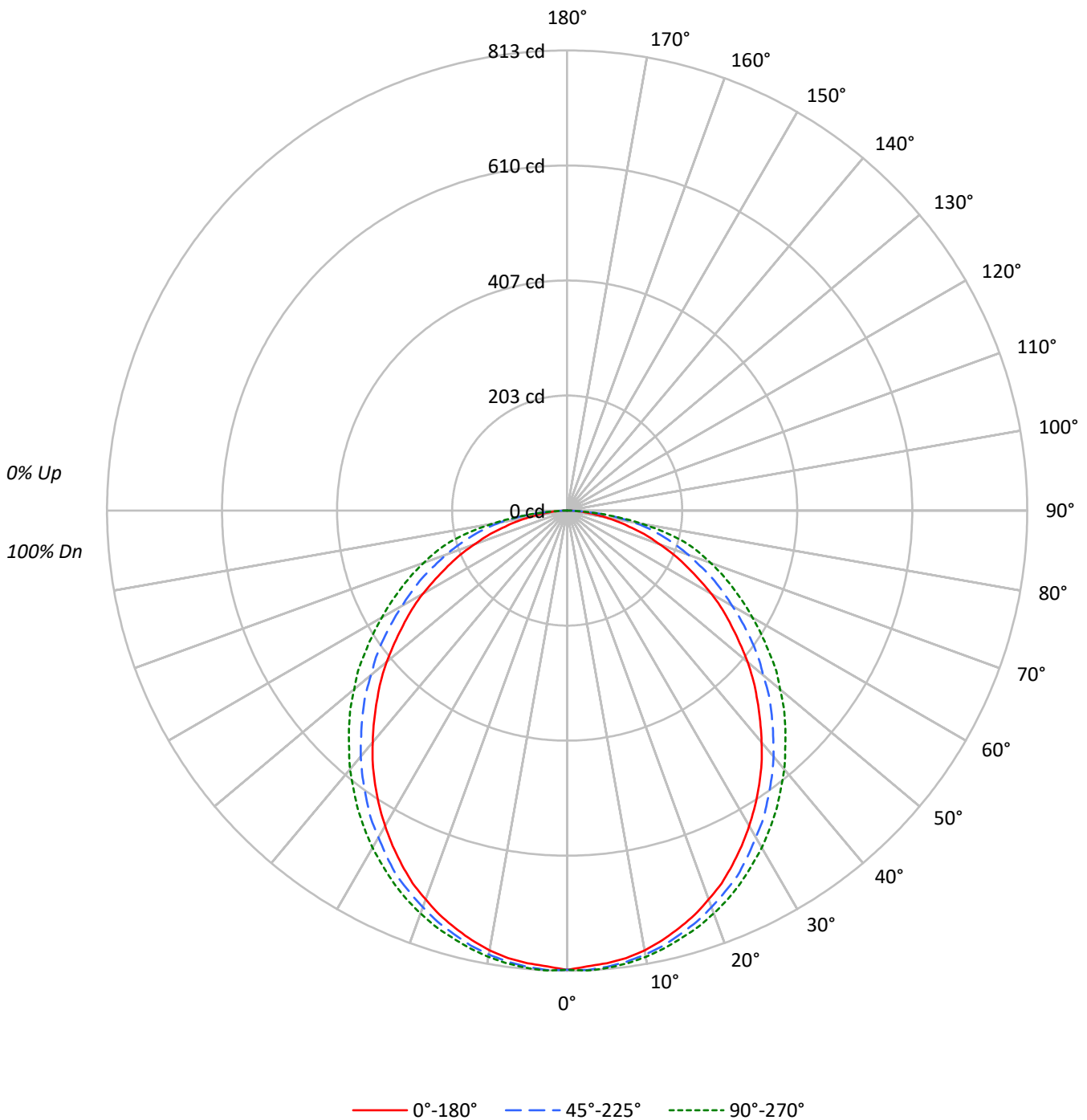
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2183	2183	2183
5°	2169	2186	2192
10°	2156	2176	2188
15°	2128	2157	2178
20°	2093	2136	2169
25°	2051	2114	2155
30°	1999	2071	2137
35°	1943	2033	2117
40°	1878	1992	2096
45°	1809	1946	2074
50°	1742	1893	2056
55°	1660	1858	2042
60°	1586	1814	2035
65°	1480	1803	2058
70°	1363	1787	2120
75°	1230	1812	2229
80°	1065	1866	2095
85°	880	1565	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.4
10°-20°	218.3	9.6
20°-30°	326.7	14.4
30°-40°	386.9	17.1
40°-50°	394.3	17.4
50°-60°	353.4	15.6
60°-70°	276.7	12.2
70°-80°	178.4	7.9
80°-90°	52.7	2.3
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°	621.7	27.5
0°-40°	1008.6	44.5
0°-60°	1756.2	77.6
0°-90°	2264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	803	805	809	810	811	76
15°	764	768	774	781	782	215
25°	691	697	712	722	726	318
35°	592	599	619	638	644	370
45°	475	486	511	538	545	367
55°	354	366	396	424	435	317
65°	232	246	283	311	323	231
75°	118	136	174	204	214	127
85°	28	39	51	51	51	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.3	811.3	811.3	811.3	811.3
2.5°	806.0	808.1	812.3	813.4	813.4
5°	802.8	804.9	809.1	810.2	811.3
7.5°	797.5	798.6	803.9	806.0	807.0
10°	789.1	791.2	796.5	799.6	800.7
12.5°	777.5	780.6	787.0	791.2	792.2
15°	763.7	768.0	774.3	780.6	781.7
17.5°	748.9	753.2	761.6	769.0	771.1
20°	731.0	736.3	745.8	754.2	757.4
22.5°	713.0	717.2	728.9	739.4	742.6
25°	690.8	697.2	712.0	721.5	725.7
27.5°	667.6	675.0	689.8	702.5	706.7
30°	643.3	650.7	666.5	682.4	687.7
32.5°	618.0	626.4	645.4	661.3	666.5
35°	591.5	598.9	619.0	638.0	644.4
37.5°	564.1	570.4	593.7	613.7	620.1
40°	534.5	543.0	567.2	590.5	596.8
42.5°	504.9	514.4	538.7	564.1	570.4
45°	475.3	485.9	511.3	537.7	545.1
47.5°	446.8	455.3	483.8	509.2	519.7
50°	416.2	424.6	452.1	480.6	491.2
52.5°	384.5	396.1	425.7	453.2	465.8
55°	353.9	365.5	396.1	423.6	435.2
57.5°	325.3	334.9	366.5	395.1	406.7
60°	294.7	303.2	337.0	367.6	378.2
62.5°	262.0	274.6	309.5	338.0	350.7
65°	232.4	246.1	283.1	310.6	323.2
67.5°	204.9	217.6	253.5	283.1	296.8
70°	173.2	190.1	227.1	256.7	269.4
72.5°	147.9	162.7	200.7	230.3	244.0
75°	118.3	136.3	174.3	203.9	214.4
77.5°	94.0	112.0	147.9	171.1	176.4
80°	68.7	86.6	120.4	132.0	135.2
82.5°	46.5	63.4	86.6	89.8	90.8
85°	28.5	39.1	50.7	50.7	50.7
87.5°	13.7	15.8	18.0	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)