

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: P259210

Luminaire Tested: **22CZ-LD5-20-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259210
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-LD5-20-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.0 lumens
Efficiency: N/A
Efficacy: 142.6 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

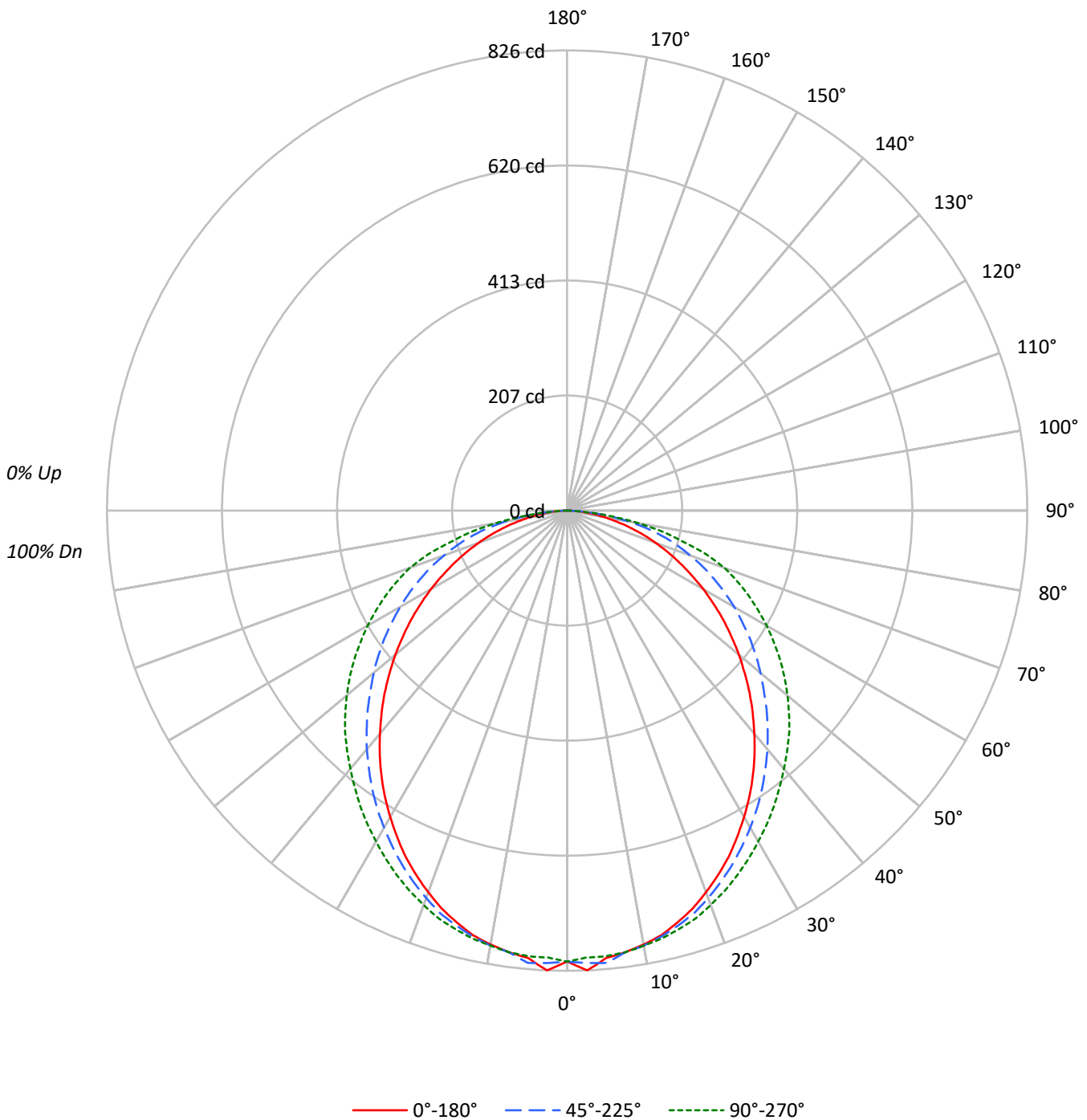
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	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	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2178	2178	2178
5°	2178	2202	2169
10°	2161	2167	2167
15°	2132	2148	2166
20°	2088	2119	2157
25°	2037	2083	2145
30°	1974	2042	2132
35°	1909	2004	2127
40°	1837	1964	2127
45°	1763	1926	2145
50°	1685	1898	2161
55°	1604	1879	2189
60°	1519	1864	2226
65°	1426	1854	2282
70°	1327	1848	2360
75°	1204	1847	2236
80°	1043	1709	1982
85°	886	1294	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.4
10°-20°	217.5	9.6
20°-30°	323.5	14.3
30°-40°	382.6	16.9
40°-50°	393.3	17.3
50°-60°	359.4	15.8
60°-70°	287.5	12.7
70°-80°	180.4	8.0
80°-90°	47.0	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°	617.8	27.2
0°-40°	1000.4	44.1
0°-60°	1753.1	77.3
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	806	806	815	810	803	77
15°	765	766	771	775	778	216
25°	686	690	701	714	722	315
35°	581	589	610	633	647	363
45°	463	475	506	544	564	357
55°	342	358	400	444	466	306
65°	224	244	291	335	358	222
75°	116	138	178	204	215	123
85°	29	36	42	41	41	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	809.5	809.5	809.5	809.5	809.5
2.5°	826.1	822.8	812.8	806.2	802.9
5°	806.2	806.2	815.0	809.5	802.9
7.5°	799.6	799.6	799.6	816.1	799.6
10°	790.8	791.9	793.0	799.6	793.0
12.5°	780.9	780.9	783.1	785.3	786.4
15°	765.4	766.5	770.9	775.3	777.5
17.5°	748.9	752.2	757.7	763.2	767.6
20°	729.0	733.4	740.0	748.9	753.3
22.5°	708.1	712.5	721.3	731.2	738.9
25°	686.0	690.4	701.4	713.6	722.4
27.5°	660.6	666.1	679.4	695.9	704.8
30°	635.3	641.9	657.3	676.1	686.0
32.5°	608.8	616.5	634.2	655.1	667.3
35°	581.2	588.9	609.9	633.1	647.4
37.5°	552.6	561.4	584.5	611.0	626.4
40°	522.8	532.7	559.2	587.8	605.5
42.5°	493.0	504.0	532.7	566.9	584.5
45°	463.2	475.3	506.2	543.7	563.6
47.5°	432.3	446.7	478.7	520.6	540.4
50°	402.6	416.9	453.3	496.3	516.2
52.5°	371.7	388.2	426.8	470.9	491.9
55°	341.9	358.4	400.4	444.5	466.5
57.5°	312.1	328.7	372.8	418.0	440.1
60°	282.3	300.0	346.3	390.4	413.6
62.5°	252.6	271.3	318.7	364.0	386.0
65°	223.9	243.7	291.2	335.3	358.4
67.5°	196.3	217.3	263.6	306.6	329.8
70°	168.7	189.7	234.9	276.8	300.0
72.5°	142.3	163.2	207.3	244.8	262.5
75°	115.8	137.9	177.6	204.0	215.1
77.5°	90.4	112.5	146.7	164.3	176.5
80°	67.3	86.0	110.3	123.5	127.9
82.5°	46.3	61.8	77.2	80.5	82.7
85°	28.7	36.4	41.9	40.8	40.8
87.5°	13.2	14.3	12.1	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)