

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: P260263

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1975.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

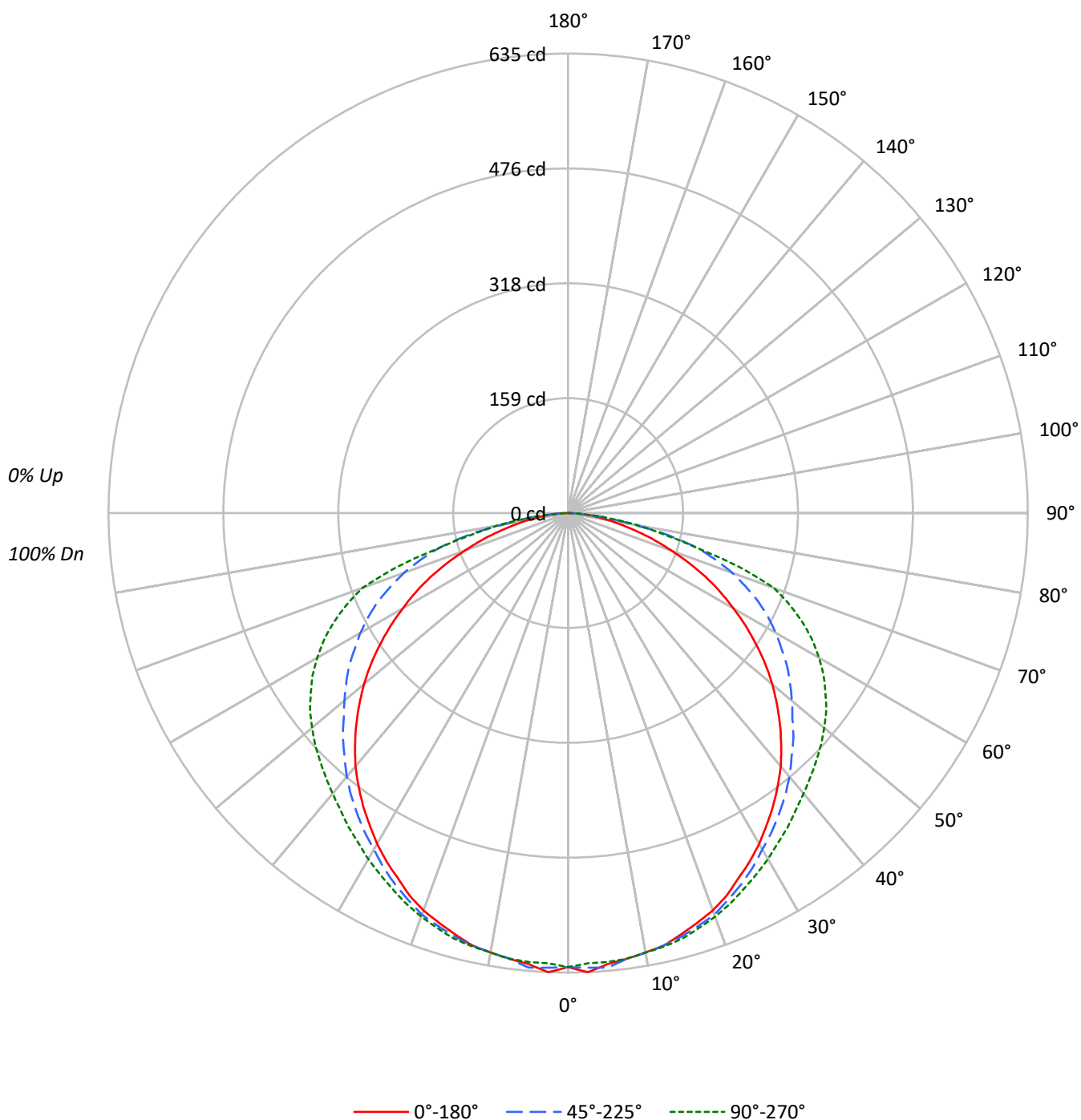
Input Watts (W): 26.335368
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1688	1688	1688
5°	1690	1703	1682
10°	1685	1685	1685
15°	1679	1688	1696
20°	1674	1691	1700
25°	1653	1681	1703
30°	1639	1668	1716
35°	1623	1668	1738
40°	1606	1670	1778
45°	1576	1675	1845
50°	1541	1689	1933
55°	1490	1734	2037
60°	1420	1783	2154
65°	1338	1846	2276
70°	1194	1895	2378
75°	1037	1897	1882
80°	879	1402	1522
85°	756	948	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.0
10°-20°	171.1	8.7
20°-30°	260.7	13.2
30°-40°	318.9	16.1
40°-50°	343.2	17.4
50°-60°	332.4	16.8
60°-70°	281.6	14.3
70°-80°	170.2	8.6
80°-90°	37.4	1.9
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°	491.3	24.9
0°-40°	810.2	41.0
0°-60°	1485.8	75.2
0°-90°	1975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	626	626	630	627	623	59
15°	603	604	606	607	609	170
25°	557	560	566	571	574	257
35°	494	497	508	522	529	309
45°	414	422	440	468	485	319
55°	318	331	370	413	434	284
65°	210	233	290	336	357	207
75°	100	135	182	186	181	107
85°	24	29	31	29	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.3	627.3	627.3	627.3	627.3
2.5°	635.0	633.4	628.8	625.8	622.7
5°	625.8	625.8	630.4	627.3	622.7
7.5°	621.2	621.2	621.2	628.8	621.2
10°	616.6	618.1	616.6	622.7	616.6
12.5°	612.0	612.0	612.0	613.5	613.5
15°	602.8	604.3	605.8	607.4	608.9
17.5°	593.6	595.1	598.2	599.7	601.2
20°	584.4	585.9	590.5	590.5	593.6
22.5°	572.1	572.1	578.2	579.8	584.4
25°	556.8	559.8	566.0	570.6	573.6
27.5°	543.0	546.0	552.2	558.3	562.9
30°	527.6	530.7	536.8	546.0	552.2
32.5°	510.7	513.8	523.0	533.8	539.9
35°	493.9	496.9	507.7	521.5	529.2
37.5°	475.5	480.1	492.3	507.7	516.9
40°	457.1	461.7	475.5	492.3	506.1
42.5°	435.6	441.7	457.1	480.1	495.4
45°	414.1	421.8	440.2	467.8	484.7
47.5°	391.1	398.8	420.3	455.5	473.9
50°	368.1	377.3	403.4	441.7	461.7
52.5°	343.6	352.8	386.5	427.9	449.4
55°	317.5	331.3	369.6	412.6	434.1
57.5°	291.4	306.8	349.7	395.7	418.7
60°	263.8	282.2	331.3	377.3	400.3
62.5°	237.7	257.7	311.4	357.4	380.4
65°	210.1	233.1	289.9	335.9	357.4
67.5°	181.0	210.1	265.3	309.8	331.3
70°	151.8	185.6	240.8	282.2	302.2
72.5°	125.8	161.0	213.2	248.5	248.5
75°	99.7	135.0	182.5	185.6	181.0
77.5°	76.7	110.4	142.6	130.4	133.4
80°	56.7	84.4	90.5	95.1	98.2
82.5°	38.3	56.7	58.3	61.4	61.4
85°	24.5	29.1	30.7	29.1	27.6
87.5°	10.7	12.3	9.2	6.1	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)