

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: P260233

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260233
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-L83050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2258.0 lumens
Efficiency: N/A
Efficacy: 86.1 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

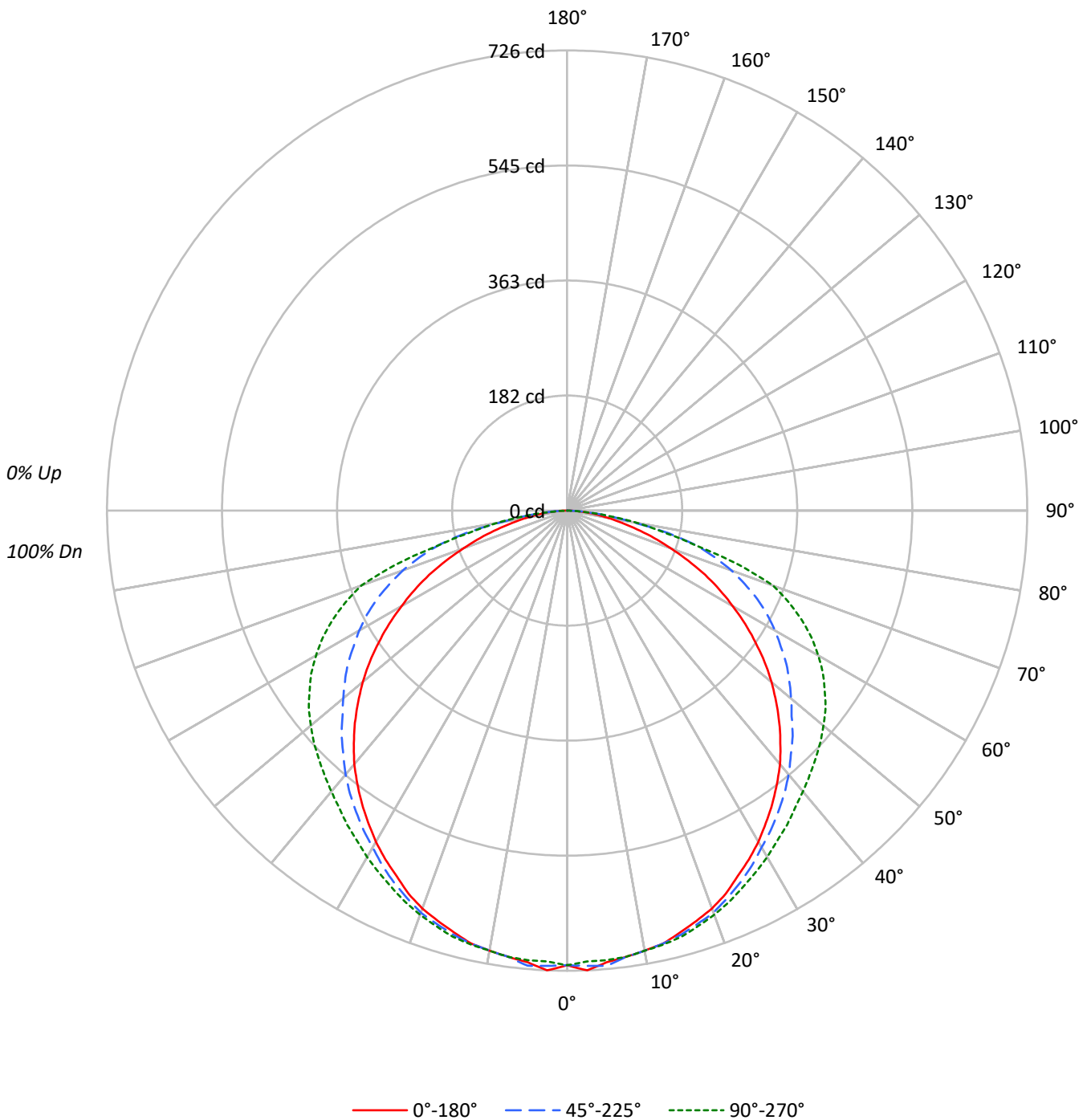
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1930	1930	1930
5°	1932	1947	1923
10°	1926	1926	1926
15°	1920	1930	1940
20°	1913	1933	1943
25°	1890	1921	1947
30°	1874	1907	1962
35°	1855	1907	1987
40°	1836	1910	2033
45°	1802	1915	2109
50°	1762	1931	2210
55°	1703	1983	2328
60°	1623	2039	2463
65°	1529	2110	2602
70°	1366	2166	2718
75°	1185	2170	2151
80°	1006	1604	1739
85°	868	1084	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.0
10°-20°	195.6	8.7
20°-30°	298.0	13.2
30°-40°	364.6	16.1
40°-50°	392.3	17.4
50°-60°	380.1	16.8
60°-70°	321.9	14.3
70°-80°	194.6	8.6
80°-90°	42.8	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°	561.7	24.9
0°-40°	926.3	41.0
0°-60°	1698.7	75.2
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	715	715	721	717	712	68
15°	689	691	693	694	696	195
25°	636	640	647	652	656	294
35°	565	568	580	596	605	353
45°	474	482	503	535	554	365
55°	363	379	423	472	496	324
65°	240	266	331	384	409	237
75°	114	154	209	212	207	122
85°	28	33	35	33	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.2	717.2	717.2	717.2	717.2
2.5°	726.0	724.2	719.0	715.4	711.9
5°	715.4	715.4	720.7	717.2	711.9
7.5°	710.2	710.2	710.2	719.0	710.2
10°	704.9	706.7	704.9	711.9	704.9
12.5°	699.7	699.7	699.7	701.4	701.4
15°	689.1	690.9	692.7	694.4	696.2
17.5°	678.6	680.4	683.9	685.6	687.4
20°	668.1	669.9	675.1	675.1	678.6
22.5°	654.1	654.1	661.1	662.8	668.1
25°	636.5	640.0	647.1	652.3	655.8
27.5°	620.8	624.3	631.3	638.3	643.6
30°	603.2	606.7	613.7	624.3	631.3
32.5°	583.9	587.4	598.0	610.2	617.2
35°	564.6	568.1	580.4	596.2	605.0
37.5°	543.6	548.9	562.9	580.4	590.9
40°	522.6	527.8	543.6	562.9	578.7
42.5°	498.0	505.0	522.6	548.9	566.4
45°	473.5	482.2	503.3	534.8	554.1
47.5°	447.2	455.9	480.5	520.8	541.8
50°	420.9	431.4	461.2	505.0	527.8
52.5°	392.8	403.3	441.9	489.2	513.8
55°	363.0	378.8	422.6	471.7	496.3
57.5°	333.2	350.7	399.8	452.4	478.7
60°	301.6	322.7	378.8	431.4	457.7
62.5°	271.8	294.6	356.0	408.6	434.9
65°	240.2	266.5	331.4	384.0	408.6
67.5°	206.9	240.2	303.4	354.2	378.8
70°	173.6	212.2	275.3	322.7	345.4
72.5°	143.8	184.1	243.7	284.1	284.1
75°	114.0	154.3	208.7	212.2	206.9
77.5°	87.7	126.3	163.1	149.1	152.6
80°	64.9	96.4	103.5	108.7	112.2
82.5°	43.8	64.9	66.6	70.1	70.1
85°	28.1	33.3	35.1	33.3	31.6
87.5°	12.3	14.0	10.5	7.0	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)