

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: P260369

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260369
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-LD5-39-SQP-UNV-L92765-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: 2177.0 lumens
Efficiency: N/A
Efficacy: 71.4 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

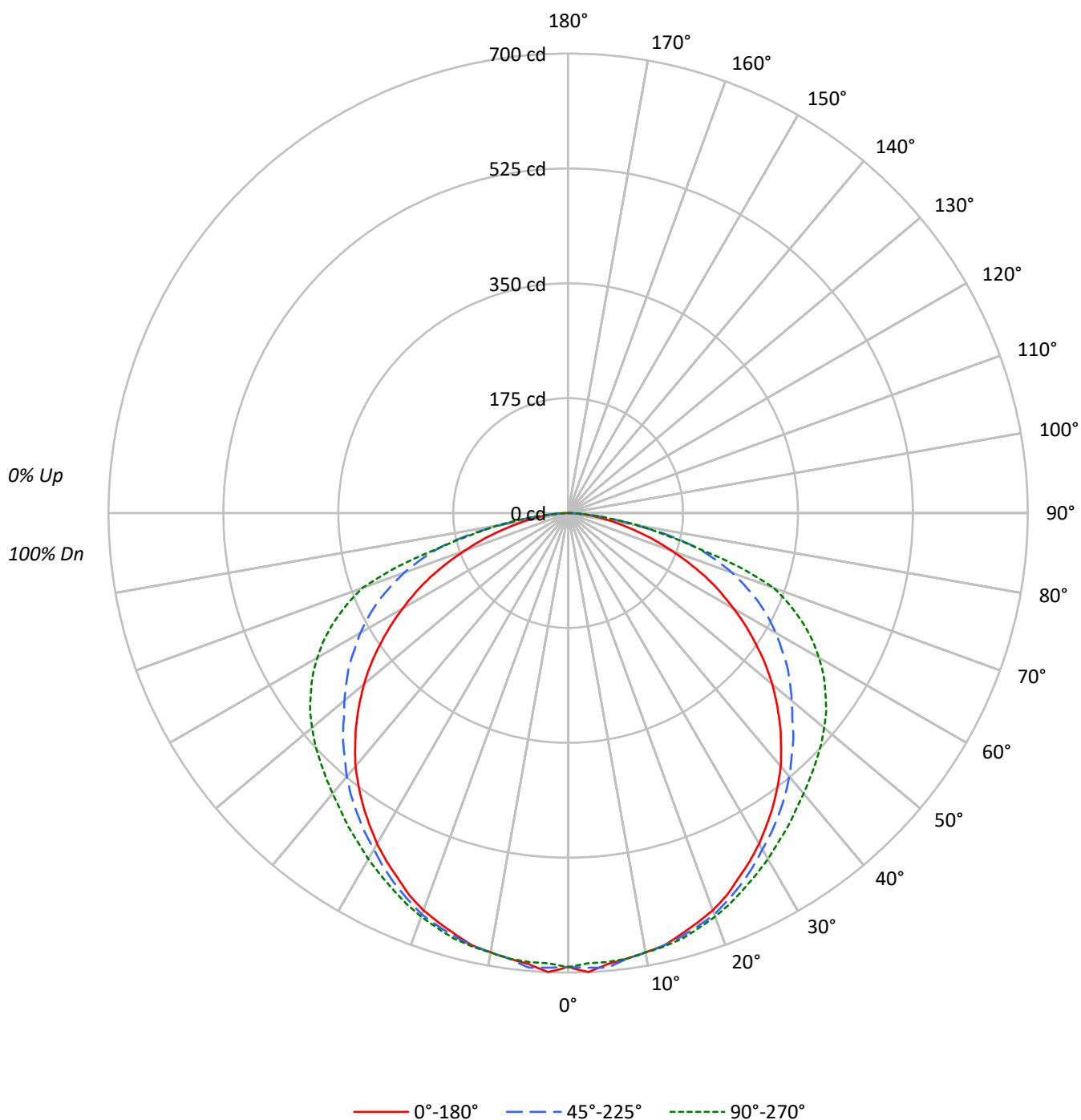
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1861	1861	1861
5°	1863	1877	1854
10°	1857	1857	1857
15°	1851	1860	1870
20°	1844	1864	1874
25°	1822	1852	1877
30°	1807	1839	1891
35°	1788	1838	1916
40°	1770	1841	1960
45°	1737	1846	2033
50°	1699	1861	2130
55°	1642	1911	2245
60°	1565	1965	2375
65°	1475	2034	2508
70°	1317	2088	2621
75°	1143	2092	2074
80°	970	1545	1677
85°	837	1044	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.0
10°-20°	188.5	8.7
20°-30°	287.3	13.2
30°-40°	351.6	16.1
40°-50°	378.3	17.4
50°-60°	366.4	16.8
60°-70°	310.4	14.3
70°-80°	187.6	8.6
80°-90°	41.2	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°	541.5	24.9
0°-40°	893.1	41.0
0°-60°	1637.8	75.2
0°-90°	2177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	690	690	695	692	686	66
15°	664	666	668	670	671	188
25°	614	617	624	629	632	283
35°	544	548	560	575	583	341
45°	456	465	485	516	534	352
55°	350	365	407	455	478	313
65°	232	257	320	370	394	228
75°	110	149	201	205	200	118
85°	27	32	34	32	30	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.5	691.5	691.5	691.5	691.5
2.5°	699.9	698.2	693.2	689.8	686.4
5°	689.8	689.8	694.9	691.5	686.4
7.5°	684.7	684.7	684.7	693.2	684.7
10°	679.6	681.3	679.6	686.4	679.6
12.5°	674.6	674.6	674.6	676.3	676.3
15°	664.4	666.1	667.8	669.5	671.2
17.5°	654.3	656.0	659.4	661.0	662.7
20°	644.1	645.8	650.9	650.9	654.3
22.5°	630.6	630.6	637.4	639.1	644.1
25°	613.7	617.1	623.8	628.9	632.3
27.5°	598.5	601.9	608.6	615.4	620.5
30°	581.6	585.0	591.7	601.9	608.6
32.5°	563.0	566.4	576.5	588.3	595.1
35°	544.4	547.8	559.6	574.8	583.3
37.5°	524.1	529.2	542.7	559.6	569.7
40°	503.8	508.9	524.1	542.7	557.9
42.5°	480.1	486.9	503.8	529.2	546.1
45°	456.5	464.9	485.2	515.6	534.2
47.5°	431.1	439.6	463.2	502.1	522.4
50°	405.8	415.9	444.6	486.9	508.9
52.5°	378.7	388.8	426.0	471.7	495.4
55°	350.0	365.2	407.4	454.8	478.5
57.5°	321.2	338.1	385.5	436.2	461.5
60°	290.8	311.1	365.2	415.9	441.3
62.5°	262.0	284.0	343.2	393.9	419.3
65°	231.6	257.0	319.5	370.3	393.9
67.5°	199.5	231.6	292.5	341.5	365.2
70°	167.4	204.6	265.4	311.1	333.1
72.5°	138.6	177.5	235.0	273.9	273.9
75°	109.9	148.8	201.2	204.6	199.5
77.5°	84.5	121.7	157.2	143.7	147.1
80°	62.6	93.0	99.7	104.8	108.2
82.5°	42.3	62.6	64.2	67.6	67.6
85°	27.1	32.1	33.8	32.1	30.4
87.5°	11.8	13.5	10.1	6.8	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)