

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: P260269

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260269
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-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2302.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

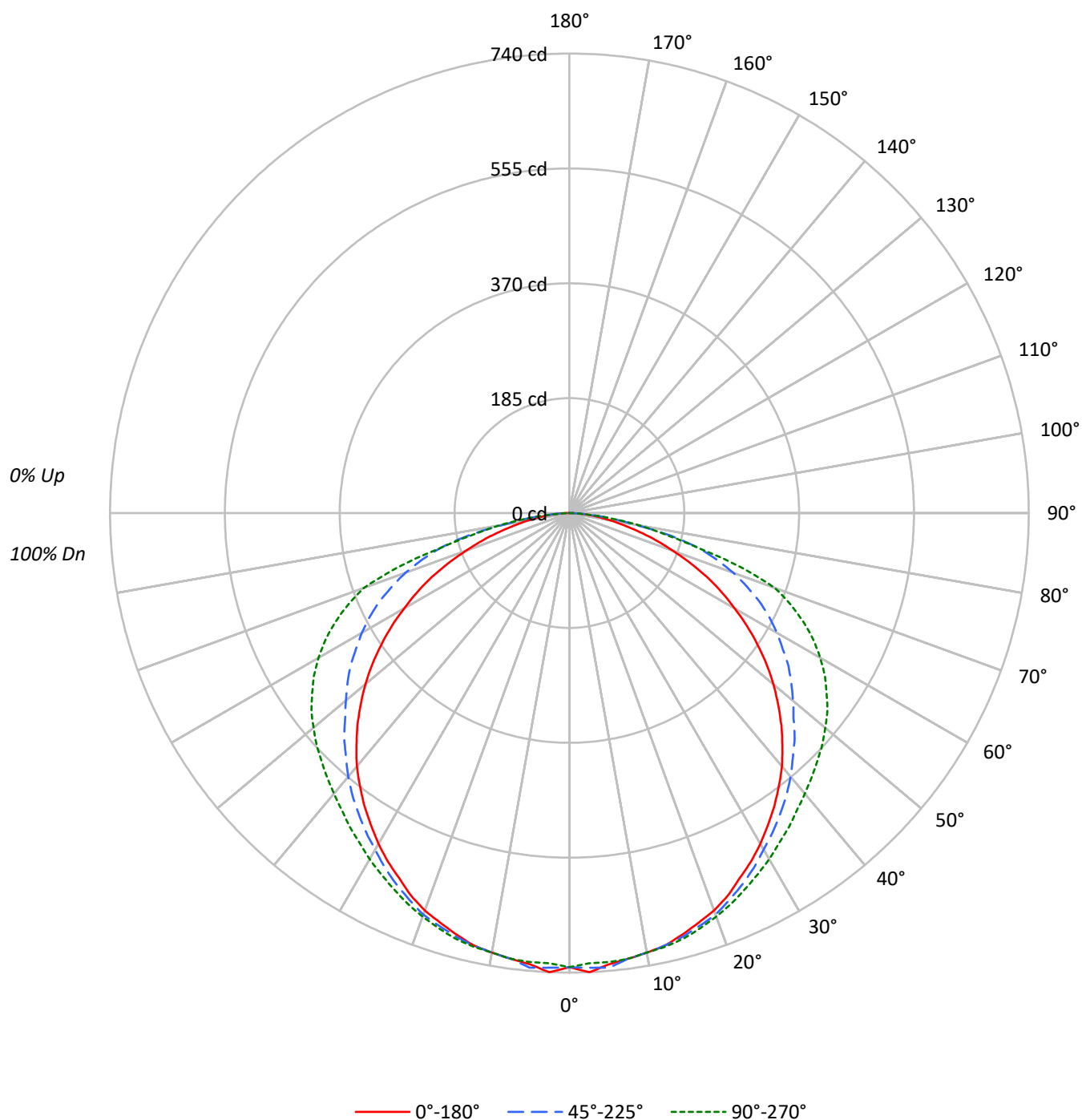
Input Watts (W): 31.397544
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1968	1968	1968
5°	1970	1985	1961
10°	1964	1964	1964
15°	1957	1967	1977
20°	1950	1971	1981
25°	1927	1959	1985
30°	1911	1944	2000
35°	1891	1944	2026
40°	1871	1947	2072
45°	1837	1953	2150
50°	1796	1968	2253
55°	1736	2021	2373
60°	1655	2078	2511
65°	1559	2152	2652
70°	1393	2209	2771
75°	1208	2211	2194
80°	1024	1635	1773
85°	883	1105	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	3.0
10°-20°	199.4	8.7
20°-30°	303.8	13.2
30°-40°	371.7	16.1
40°-50°	400.0	17.4
50°-60°	387.4	16.8
60°-70°	328.2	14.3
70°-80°	198.4	8.6
80°-90°	43.6	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°	572.6	24.9
0°-40°	944.4	41.0
0°-60°	1731.8	75.2
0°-90°	2302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	729	729	735	731	726	69
15°	703	704	706	708	710	198
25°	649	652	660	665	669	300
35°	576	579	592	608	617	360
45°	483	492	513	545	565	372
55°	370	386	431	481	506	331
65°	245	272	338	392	416	241
75°	116	157	213	216	211	125
85°	29	34	36	34	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.2	731.2	731.2	731.2	731.2
2.5°	740.1	738.3	733.0	729.4	725.8
5°	729.4	729.4	734.8	731.2	725.8
7.5°	724.0	724.0	724.0	733.0	724.0
10°	718.7	720.5	718.7	725.8	718.7
12.5°	713.3	713.3	713.3	715.1	715.1
15°	702.6	704.4	706.1	707.9	709.7
17.5°	691.8	693.6	697.2	699.0	700.8
20°	681.1	682.9	688.3	688.3	691.8
22.5°	666.8	666.8	674.0	675.8	681.1
25°	648.9	652.5	659.7	665.0	668.6
27.5°	632.9	636.4	643.6	650.7	656.1
30°	615.0	618.6	625.7	636.4	643.6
32.5°	595.3	598.9	609.6	622.1	629.3
35°	575.6	579.2	591.7	607.8	616.8
37.5°	554.2	559.6	573.9	591.7	602.5
40°	532.7	538.1	554.2	573.9	589.9
42.5°	507.7	514.9	532.7	559.6	577.4
45°	482.7	491.6	513.1	545.3	564.9
47.5°	455.9	464.8	489.8	531.0	552.4
50°	429.1	439.8	470.2	514.9	538.1
52.5°	400.4	411.2	450.5	498.8	523.8
55°	370.1	386.1	430.8	480.9	505.9
57.5°	339.7	357.5	407.6	461.2	488.0
60°	307.5	328.9	386.1	439.8	466.6
62.5°	277.1	300.3	362.9	416.5	443.4
65°	244.9	271.7	337.9	391.5	416.5
67.5°	211.0	244.9	309.3	361.1	386.1
70°	177.0	216.3	280.7	328.9	352.2
72.5°	146.6	187.7	248.5	289.6	289.6
75°	116.2	157.3	212.7	216.3	211.0
77.5°	89.4	128.7	166.3	152.0	155.5
80°	66.1	98.3	105.5	110.8	114.4
82.5°	44.7	66.1	67.9	71.5	71.5
85°	28.6	34.0	35.8	34.0	32.2
87.5°	12.5	14.3	10.7	7.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)