

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: P259191

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2051.0 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

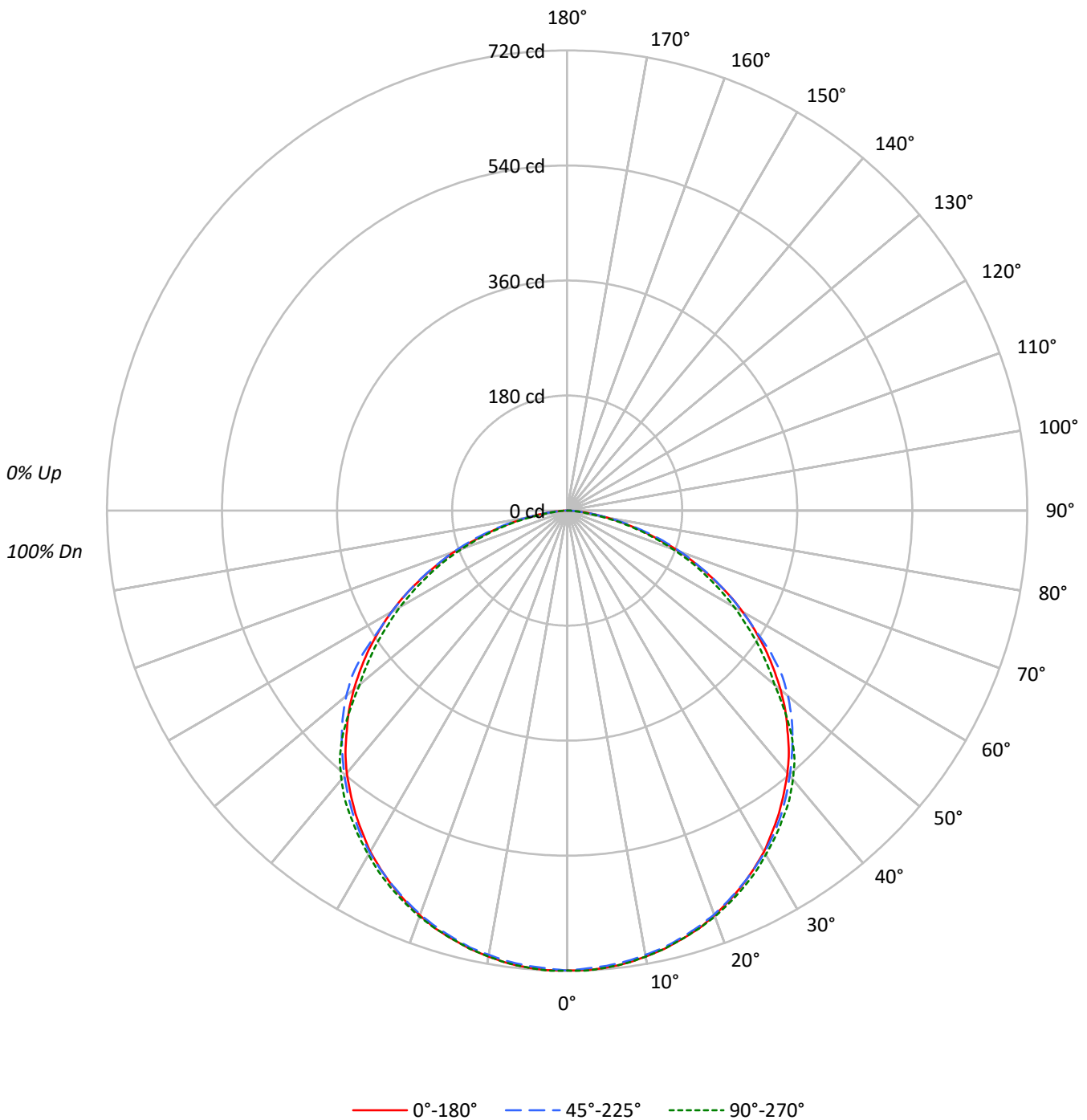
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259191

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P259191

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-3000K

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1937	1937	1937
5°	1938	1931	1938
10°	1936	1929	1936
15°	1933	1928	1933
20°	1930	1926	1936
25°	1923	1920	1935
30°	1915	1919	1932
35°	1899	1915	1933
40°	1884	1904	1930
45°	1856	1898	1890
50°	1824	1888	1774
55°	1776	1828	1708
60°	1709	1705	1626
65°	1601	1610	1522
70°	1471	1487	1378
75°	1235	1293	1177
80°	979	1001	829
85°	642	559	472



TEST NUMBER: P259191

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.3
10°-20°	195.9	9.6
20°-30°	299.1	14.6
30°-40°	365.0	17.8
40°-50°	381.7	18.6
50°-60°	337.9	16.5
60°-70°	248.8	12.1
70°-80°	128.8	6.3
80°-90°	25.7	1.3
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°	563.2	27.5
0°-40°	928.2	45.3
0°-60°	1647.7	80.3
0°-90°	2051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	718	718	715	718	718	68
15°	694	694	692	695	694	196
25°	648	648	647	651	652	298
35°	578	579	583	588	588	362
45°	488	492	499	503	497	377
55°	379	386	390	370	364	338
65°	252	267	253	243	239	249
75°	119	127	124	117	113	127
85°	21	22	18	16	15	27
90°	0	0	0	0	0	



TEST NUMBER: P259191

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.7	719.7	719.7	719.7	719.7
2.5°	719.7	719.7	717.0	719.7	720.4
5°	717.6	717.6	714.9	717.6	717.6
7.5°	714.2	713.5	711.4	714.2	714.2
10°	708.6	708.6	705.8	709.3	708.6
12.5°	702.4	701.7	700.3	703.1	702.4
15°	694.0	694.0	691.9	694.7	694.0
17.5°	685.7	685.0	682.9	685.7	685.7
20°	673.9	673.2	672.5	675.3	676.0
22.5°	661.4	660.7	660.0	664.2	664.2
25°	647.5	647.5	646.8	651.0	651.6
27.5°	632.2	632.2	632.9	638.4	637.8
30°	616.2	616.2	617.6	621.8	621.8
32.5°	596.8	598.2	600.9	605.8	605.8
35°	578.0	579.4	582.9	588.4	588.4
37.5°	557.2	559.3	562.7	569.7	571.1
40°	536.3	537.7	541.9	549.5	549.5
42.5°	513.4	514.8	520.3	528.0	526.6
45°	487.7	491.9	498.8	503.0	496.7
47.5°	463.4	466.2	475.9	471.0	460.6
50°	435.6	441.1	450.9	433.5	423.8
52.5°	407.1	413.4	423.8	399.5	393.9
55°	378.6	386.3	389.7	369.6	364.0
57.5°	348.1	356.4	349.4	337.6	332.1
60°	317.5	327.2	316.8	305.7	302.2
62.5°	285.5	296.6	284.8	275.1	270.2
65°	251.5	266.8	252.9	243.2	239.0
67.5°	218.1	234.1	219.5	211.2	208.4
70°	186.9	195.9	189.0	180.6	175.1
72.5°	149.4	158.4	157.0	148.0	144.5
75°	118.8	127.1	124.4	116.7	113.2
77.5°	88.2	97.3	94.5	85.5	84.1
80°	63.2	69.5	64.6	56.3	53.5
82.5°	39.6	44.5	38.2	32.0	30.6
85°	20.8	22.2	18.1	16.0	15.3
87.5°	6.9	7.6	7.6	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)