

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: P258576

Luminaire Tested: **14CZ-LD5-29-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-UNV-L93050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

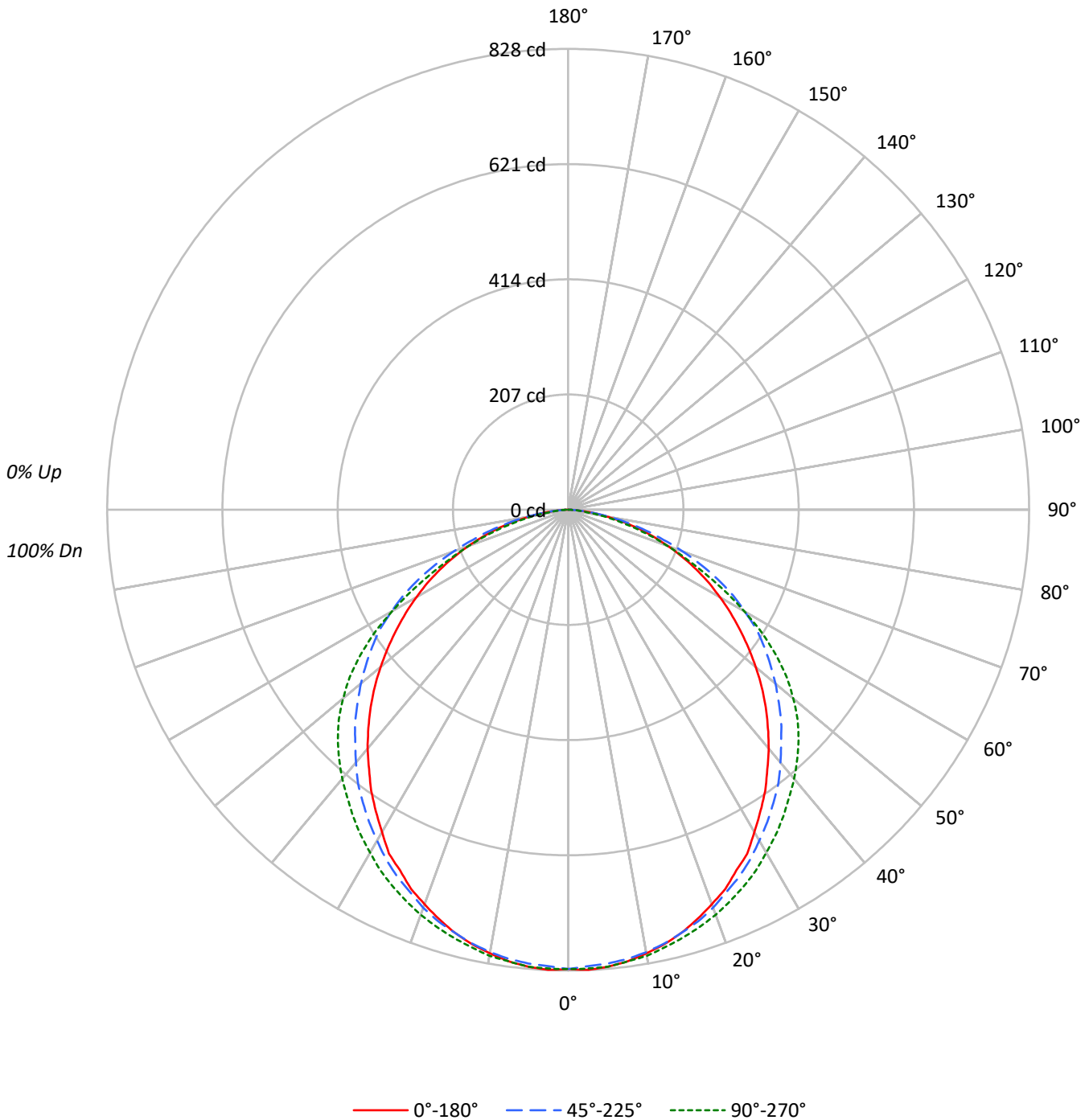
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258576

CATALOG NUMBER: 14CZ-LD5-29-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P258576

CATALOG NUMBER: 14CZ-LD5-29-UNV-L93050-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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2221	2221	2221
5°	2226	2211	2226
10°	2212	2206	2224
15°	2193	2193	2218
20°	2160	2179	2218
25°	2122	2159	2216
30°	2078	2133	2211
35°	2026	2111	2211
40°	1969	2083	2218
45°	1909	2060	2227
50°	1841	2034	2209
55°	1767	2016	2137
60°	1693	1972	1966
65°	1615	1888	1723
70°	1499	1721	1490
75°	1360	1500	1231
80°	1083	1189	908
85°	766	661	522



TEST NUMBER: P258576

CATALOG NUMBER: 14CZ-LD5-29-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.4
10°-20°	223.1	9.8
20°-30°	336.4	14.7
30°-40°	403.2	17.6
40°-50°	418.4	18.3
50°-60°	377.4	16.5
60°-70°	275.3	12.0
70°-80°	144.4	6.3
80°-90°	30.8	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°	637.5	27.9
0°-40°	1040.7	45.5
0°-60°	1836.5	80.3
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	824	822	818	824	824	78
15°	787	787	787	796	796	222
25°	715	718	727	743	746	330
35°	617	624	643	666	673	385
45°	502	512	541	574	585	387
55°	377	390	430	458	456	337
65°	254	268	296	285	271	251
75°	131	149	144	125	118	137
85°	25	30	21	18	17	32
90°	0	0	0	0	0	



TEST NUMBER: P258576

CATALOG NUMBER: 14CZ-LD5-29-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.3	825.3	825.3	825.3	825.3
2.5°	827.6	825.3	820.8	825.3	825.3
5°	824.2	821.9	818.5	824.2	824.2
7.5°	818.5	816.3	814.0	819.7	818.5
10°	809.5	808.4	807.3	814.0	814.0
12.5°	799.4	799.4	798.3	806.1	805.0
15°	787.0	787.0	787.0	796.0	796.0
17.5°	771.2	773.4	775.7	785.9	785.9
20°	754.3	756.5	761.0	773.4	774.6
22.5°	737.4	738.5	743.0	757.7	761.0
25°	714.8	718.2	727.2	743.0	746.4
27.5°	696.8	697.9	708.1	726.1	730.6
30°	668.6	676.5	686.6	706.9	711.4
32.5°	642.7	649.4	665.2	686.6	693.4
35°	616.7	623.5	642.7	666.3	673.1
37.5°	587.4	597.6	620.1	643.8	651.7
40°	560.4	569.4	593.1	622.4	631.4
42.5°	531.0	540.1	566.0	598.7	608.8
45°	501.7	511.9	541.2	573.9	585.2
47.5°	471.3	482.6	513.0	549.1	559.2
50°	439.7	452.1	485.9	523.1	527.7
52.5°	408.1	421.7	457.8	490.5	495.0
55°	376.6	390.1	429.6	457.8	455.5
57.5°	346.1	360.8	401.4	416.0	413.8
60°	314.6	330.4	366.4	373.2	365.3
62.5°	285.3	299.9	333.7	328.1	317.9
65°	253.7	268.3	296.5	285.3	270.6
67.5°	222.1	240.2	258.2	239.0	227.8
70°	190.5	210.8	218.7	199.6	189.4
72.5°	160.1	181.5	179.3	160.1	153.3
75°	130.8	148.8	144.3	125.2	118.4
77.5°	99.2	119.5	109.4	93.6	87.9
80°	69.9	87.9	76.7	63.1	58.6
82.5°	46.2	58.6	47.4	37.2	33.8
85°	24.8	30.4	21.4	18.0	16.9
87.5°	10.1	9.0	7.9	7.9	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)