

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: P#

Luminaire Tested: **14CZ-LD5-20-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-S-UNV-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.3 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

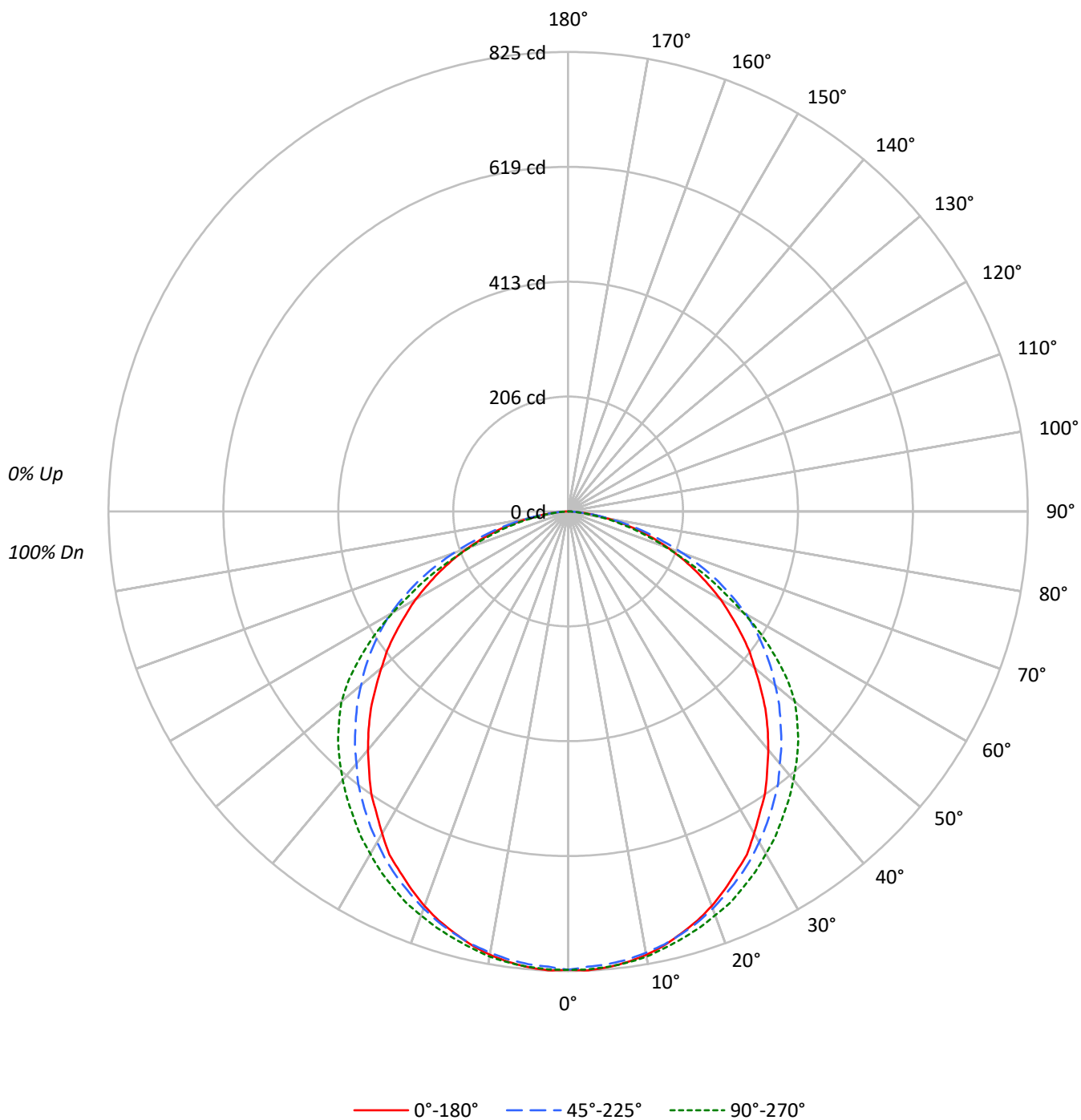
Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	66	88	78	71	65		75	69	64		73	67	63		70	66	62
4	83	71	62	56	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	48		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	43	37		49	42	36		48	41	36		47	40	36
8	61	47	39	33	59	46	38	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	29		42	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	27		37	31	26		37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2215	2215	2215
5°	2214	2187	2198
10°	2199	2165	2179
15°	2170	2137	2153
20°	2139	2105	2132
25°	2095	2068	2112
30°	2045	2027	2086
35°	1991	1984	2059
40°	1923	1933	2039
45°	1858	1885	2020
50°	1777	1838	1986
55°	1708	1789	1864
60°	1630	1722	1665
65°	1527	1589	1431
70°	1406	1382	1152
75°	1240	1127	896
80°	955	783	599
85°	603	335	228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.4
10°-20°	222.5	9.7
20°-30°	335.6	14.7
30°-40°	402.4	17.6
40°-50°	417.6	18.3
50°-60°	377.0	16.5
60°-70°	274.6	12.0
70°-80°	144.0	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°	635.9	27.9
0°-40°	1038.3	45.5
0°-60°	1832.9	80.3
0°-90°	2282.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	821	820	816	821	821	78
15°	784	784	785	794	794	221
25°	714	718	725	741	744	329
35°	617	623	641	665	671	385
45°	500	511	539	573	584	385
55°	377	390	430	455	454	337
65°	253	268	297	283	273	250
75°	130	149	144	124	118	137
85°	25	30	22	17	16	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.0	823.0	823.0	823.0	823.0
2.5°	824.7	822.5	818.1	823.6	823.0
5°	821.4	819.7	815.9	821.4	820.8
7.5°	815.9	814.8	811.6	817.6	817.0
10°	808.3	806.6	804.5	811.0	811.6
12.5°	797.9	797.4	796.3	803.4	802.8
15°	784.3	784.3	785.4	794.1	793.5
17.5°	770.6	770.6	773.4	783.2	783.7
20°	753.7	754.8	758.6	770.6	771.7
22.5°	734.6	735.7	742.2	757.5	760.3
25°	713.9	717.7	725.3	741.2	744.4
27.5°	694.8	695.3	706.8	724.2	728.6
30°	667.5	675.1	685.5	705.7	710.0
32.5°	640.7	648.4	664.2	686.0	692.0
35°	616.7	622.7	641.3	665.3	670.8
37.5°	586.7	596.5	618.4	643.5	651.1
40°	558.9	567.6	591.1	619.4	629.3
42.5°	529.9	539.8	566.5	597.1	606.9
45°	500.5	511.4	539.2	573.1	584.0
47.5°	468.3	481.9	513.6	548.0	557.8
50°	437.2	451.4	485.2	521.2	531.0
52.5°	408.8	421.3	458.4	491.7	496.1
55°	377.1	390.2	429.5	455.2	454.1
57.5°	345.5	360.2	399.5	415.3	411.0
60°	316.0	329.6	368.9	372.2	362.9
62.5°	283.3	299.1	332.4	327.5	316.0
65°	252.7	268.0	296.9	283.3	272.9
67.5°	221.6	238.0	258.7	238.5	226.5
70°	191.0	210.7	218.3	196.5	186.7
72.5°	159.9	180.6	180.1	159.4	151.2
75°	130.4	149.0	144.1	124.4	118.4
77.5°	99.3	117.9	108.6	93.9	88.4
80°	70.4	87.9	75.9	64.4	60.6
82.5°	48.0	58.4	47.5	37.7	36.0
85°	25.1	30.0	21.8	16.9	15.8
87.5°	9.3	8.7	7.6	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)