

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: P258832

Luminaire Tested: **14CZ-LD5-25-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2319.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

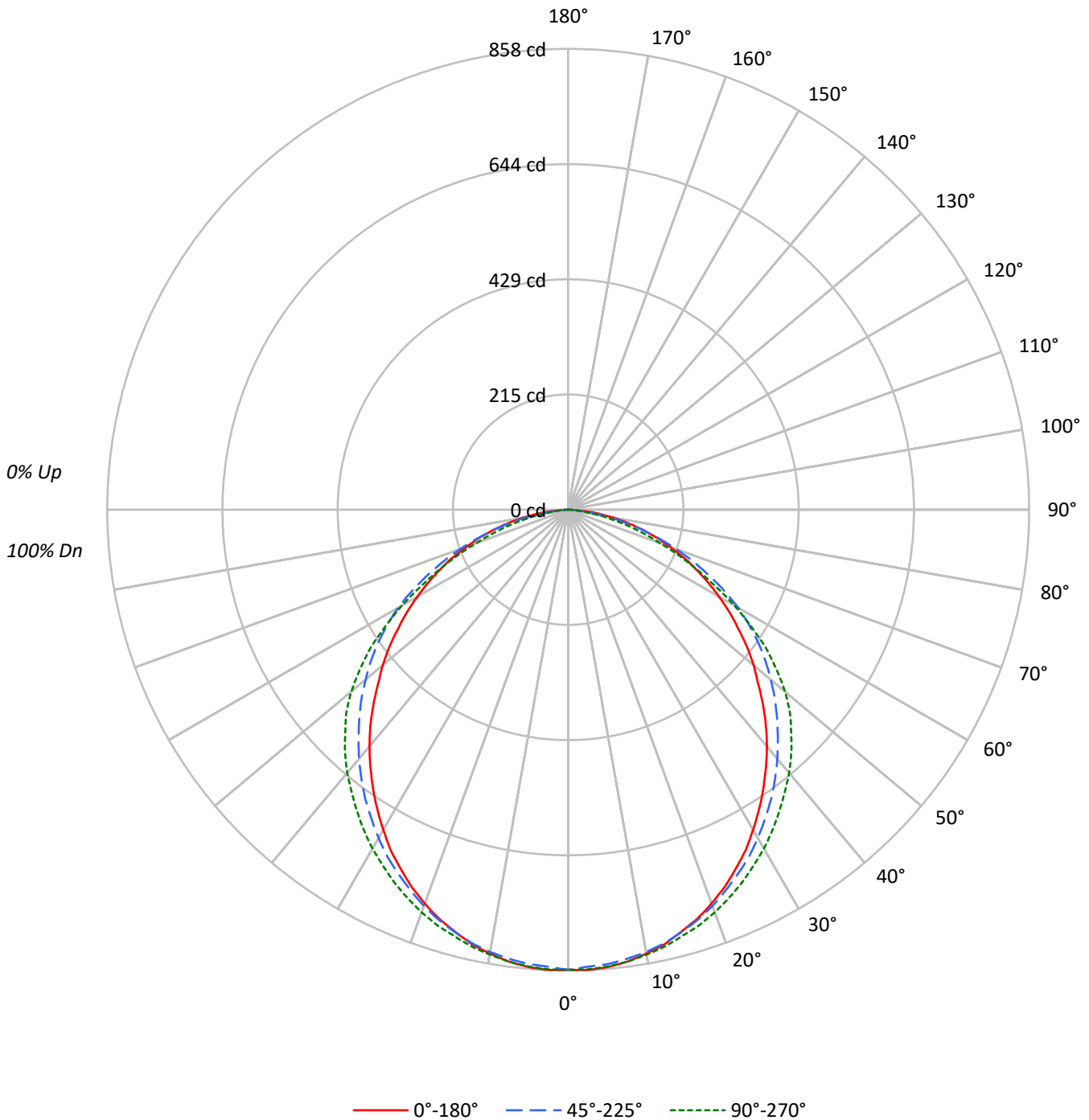
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2305	2305	2305
5°	2308	2294	2306
10°	2293	2284	2298
15°	2265	2269	2289
20°	2234	2249	2284
25°	2191	2221	2273
30°	2138	2193	2264
35°	2081	2162	2251
40°	2022	2127	2247
45°	1950	2092	2234
50°	1886	2059	2206
55°	1813	2026	2109
60°	1746	1969	1924
65°	1671	1842	1691
70°	1578	1675	1431
75°	1472	1450	1182
80°	1297	1120	865
85°	1022	543	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.5
10°-20°	230.6	9.9
20°-30°	346.1	14.9
30°-40°	412.6	17.8
40°-50°	425.0	18.3
50°-60°	378.7	16.3
60°-70°	272.9	11.8
70°-80°	142.7	6.2
80°-90°	29.5	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
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0°-30°	657.6	28.4
0°-40°	1070.2	46.1
0°-60°	1873.9	80.8
0°-90°	2319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	855	852	849	855	854	81
15°	813	814	814	822	822	229
25°	738	742	748	763	766	340
35°	633	642	658	680	685	396
45°	512	524	550	581	587	395
55°	386	399	432	452	450	347
65°	262	272	289	276	266	260
75°	142	149	140	121	114	150
85°	33	29	18	16	16	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.6	856.6	856.6	856.6	856.6
2.5°	857.7	855.6	851.5	856.6	856.6
5°	854.6	852.5	849.4	854.6	853.5
7.5°	848.4	846.3	843.2	849.4	848.4
10°	839.1	838.0	836.0	842.2	841.1
12.5°	828.7	827.7	826.7	832.9	832.9
15°	813.2	814.3	814.3	822.5	821.5
17.5°	798.8	799.8	800.8	811.2	811.2
20°	780.2	781.2	785.3	796.7	797.7
22.5°	760.5	761.6	766.7	780.2	782.2
25°	737.8	741.9	748.1	762.6	765.7
27.5°	715.1	718.2	728.5	745.0	747.1
30°	688.2	694.4	705.8	724.4	728.5
32.5°	661.3	668.6	682.0	702.7	707.8
35°	633.4	641.7	658.2	679.9	685.1
37.5°	604.5	611.7	632.4	655.1	662.4
40°	575.6	582.8	605.5	631.4	639.6
42.5°	544.6	554.9	577.6	606.6	614.8
45°	512.5	523.9	549.7	580.7	586.9
47.5°	479.5	491.9	521.8	552.8	560.1
50°	450.5	461.9	491.9	521.8	527.0
52.5°	419.5	429.9	462.9	487.7	488.8
55°	386.5	398.9	431.9	451.6	449.5
57.5°	356.5	366.8	398.9	409.2	403.0
60°	324.5	333.8	365.8	366.8	357.5
62.5°	293.5	302.8	327.6	320.3	309.0
65°	262.5	271.8	289.3	275.9	265.6
67.5°	232.5	240.8	251.1	233.5	223.2
70°	200.5	211.8	212.9	192.2	181.9
72.5°	172.6	178.8	176.7	157.1	147.8
75°	141.6	148.8	139.5	120.9	113.7
77.5°	112.6	117.8	105.4	87.8	82.7
80°	83.7	86.8	72.3	58.9	55.8
82.5°	56.8	56.8	41.3	32.0	28.9
85°	33.1	28.9	17.6	15.5	15.5
87.5°	11.4	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)