

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: P259130

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259130
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-LD5-35-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2277.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

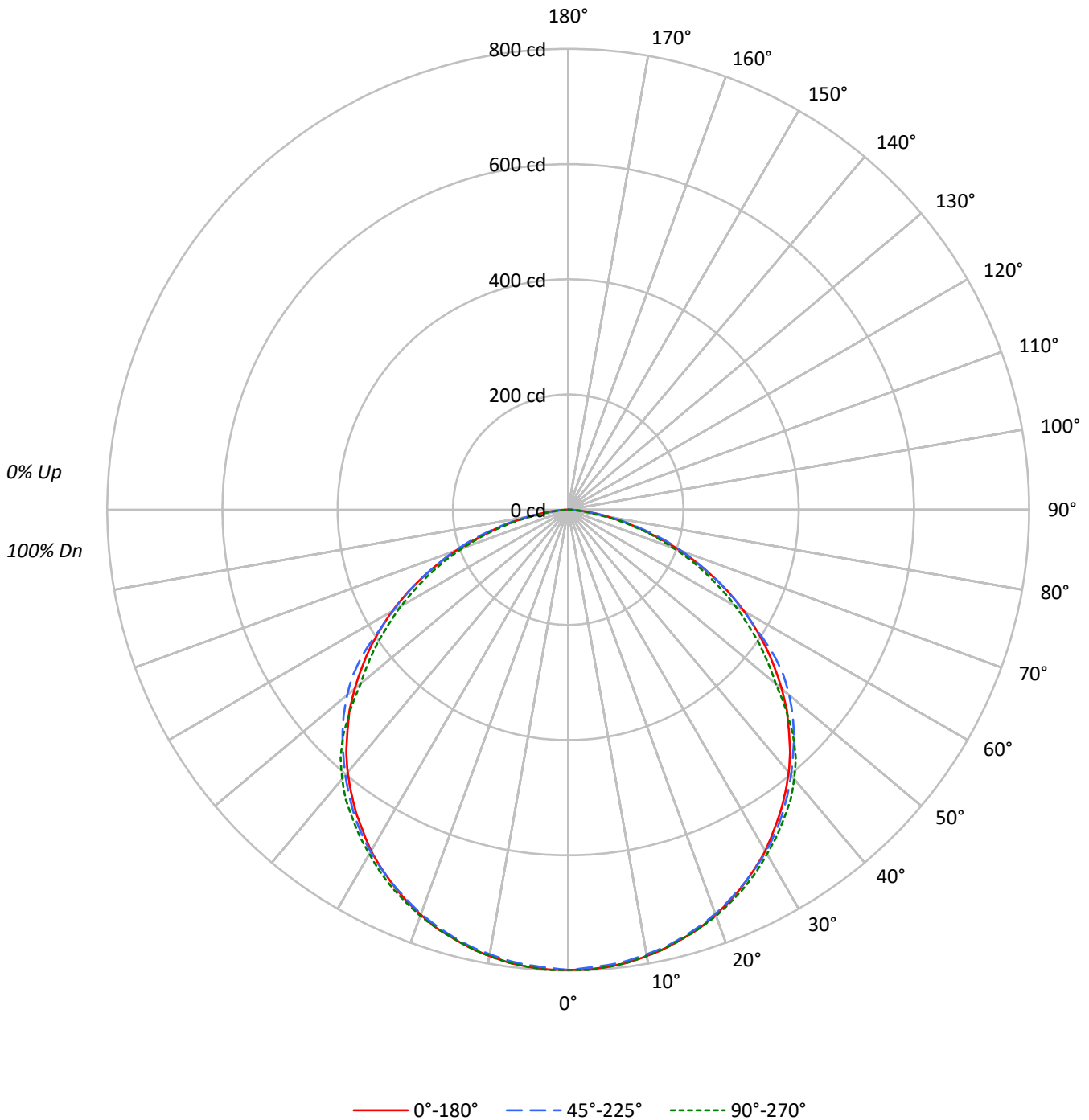
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2150	2150	2150
5°	2152	2144	2152
10°	2150	2141	2150
15°	2147	2140	2147
20°	2142	2138	2149
25°	2134	2132	2148
30°	2126	2131	2145
35°	2108	2126	2146
40°	2092	2113	2143
45°	2060	2108	2099
50°	2025	2096	1970
55°	1972	2030	1896
60°	1897	1893	1806
65°	1778	1787	1689
70°	1633	1651	1530
75°	1371	1436	1307
80°	1088	1111	921
85°	713	621	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.3
10°-20°	217.5	9.6
20°-30°	332.1	14.6
30°-40°	405.2	17.8
40°-50°	423.7	18.6
50°-60°	375.1	16.5
60°-70°	276.2	12.1
70°-80°	143.0	6.3
80°-90°	28.5	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
0°-30°	625.3	27.5
0°-40°	1030.5	45.3
0°-60°	1829.3	80.3
0°-90°	2277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	797	797	794	797	797	76
15°	770	770	768	771	770	218
25°	719	719	718	723	724	331
35°	642	643	647	653	653	401
45°	541	546	554	558	552	418
55°	420	429	433	410	404	375
65°	279	296	281	270	265	277
75°	132	141	138	130	126	141
85°	23	25	20	18	17	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.0	799.0	799.0	799.0	799.0
2.5°	799.0	799.0	796.0	799.0	799.8
5°	796.7	796.7	793.6	796.7	796.7
7.5°	792.9	792.1	789.8	792.9	792.9
10°	786.7	786.7	783.6	787.5	786.7
12.5°	779.8	779.0	777.4	780.5	779.8
15°	770.5	770.5	768.2	771.3	770.5
17.5°	761.2	760.5	758.2	761.2	761.2
20°	748.1	747.4	746.6	749.7	750.4
22.5°	734.3	733.5	732.7	737.3	737.3
25°	718.8	718.8	718.1	722.7	723.5
27.5°	701.9	701.9	702.6	708.8	708.0
30°	684.1	684.1	685.7	690.3	690.3
32.5°	662.5	664.1	667.2	672.6	672.6
35°	641.7	643.2	647.1	653.3	653.3
37.5°	618.6	620.9	624.7	632.4	634.0
40°	595.4	597.0	601.6	610.1	610.1
42.5°	570.0	571.5	577.7	586.2	584.6
45°	541.4	546.1	553.8	558.4	551.5
47.5°	514.4	517.5	528.3	522.9	511.4
50°	483.6	489.8	500.6	481.3	470.5
52.5°	452.0	458.9	470.5	443.5	437.3
55°	420.3	428.8	432.7	410.3	404.1
57.5°	386.4	395.7	388.0	374.8	368.7
60°	352.5	363.3	351.7	339.4	335.5
62.5°	317.0	329.3	316.2	305.4	300.0
65°	279.2	296.2	280.7	269.9	265.3
67.5°	242.2	259.9	243.7	234.5	231.4
70°	207.5	217.5	209.8	200.5	194.4
72.5°	165.8	175.9	174.3	164.3	160.4
75°	131.9	141.1	138.1	129.6	125.7
77.5°	98.0	108.0	104.9	94.9	93.3
80°	70.2	77.1	71.7	62.5	59.4
82.5°	44.0	49.4	42.4	35.5	33.9
85°	23.1	24.7	20.1	17.7	17.0
87.5°	7.7	8.5	8.5	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)