

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: P260307

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2185.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

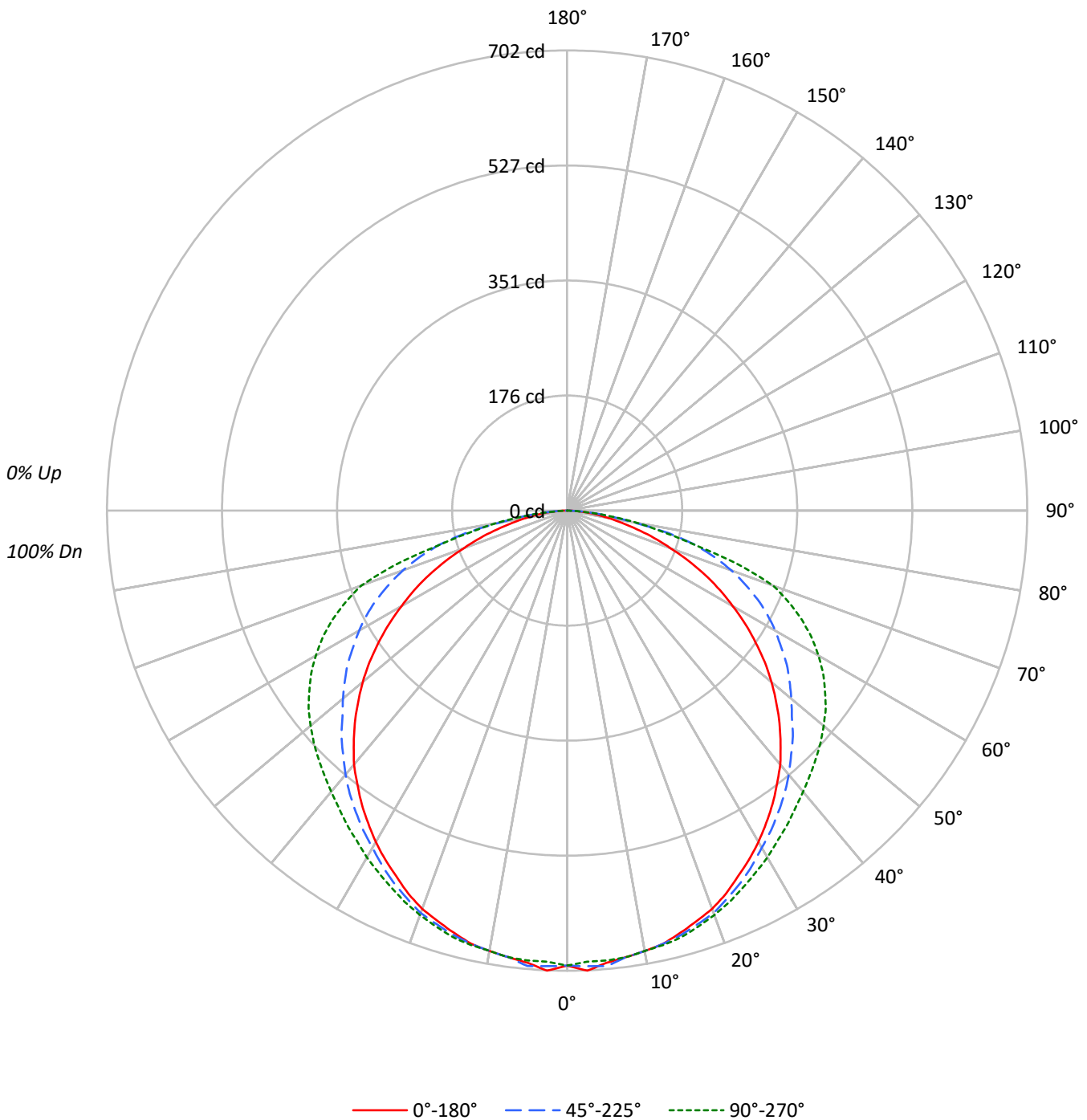
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1868	1868	1868
5°	1870	1884	1861
10°	1864	1864	1864
15°	1858	1867	1877
20°	1851	1871	1881
25°	1829	1859	1884
30°	1814	1845	1898
35°	1795	1845	1923
40°	1776	1848	1967
45°	1744	1853	2041
50°	1705	1868	2138
55°	1648	1918	2253
60°	1571	1972	2384
65°	1480	2042	2518
70°	1322	2096	2630
75°	1147	2099	2082
80°	973	1551	1683
85°	837	1047	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.0
10°-20°	189.2	8.7
20°-30°	288.4	13.2
30°-40°	352.9	16.1
40°-50°	379.7	17.4
50°-60°	367.8	16.8
60°-70°	311.5	14.3
70°-80°	188.3	8.6
80°-90°	41.4	1.9
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°	543.5	24.9
0°-40°	896.4	41.0
0°-60°	1643.8	75.2
0°-90°	2185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	692	692	697	694	689	66
15°	667	669	670	672	674	188
25°	616	619	626	631	635	284
35°	546	550	562	577	585	342
45°	458	467	487	518	536	353
55°	351	366	409	456	480	314
65°	232	258	321	372	395	229
75°	110	149	202	205	200	118
85°	27	32	34	32	30	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.0	694.0	694.0	694.0	694.0
2.5°	702.5	700.8	695.7	692.3	688.9
5°	692.3	692.3	697.4	694.0	688.9
7.5°	687.2	687.2	687.2	695.7	687.2
10°	682.1	683.8	682.1	688.9	682.1
12.5°	677.0	677.0	677.0	678.7	678.7
15°	666.9	668.6	670.3	672.0	673.7
17.5°	656.7	658.4	661.8	663.5	665.2
20°	646.5	648.2	653.3	653.3	656.7
22.5°	632.9	632.9	639.7	641.4	646.5
25°	616.0	619.4	626.1	631.2	634.6
27.5°	600.7	604.1	610.9	617.7	622.7
30°	583.7	587.1	593.9	604.1	610.9
32.5°	565.1	568.4	578.6	590.5	597.3
35°	546.4	549.8	561.7	576.9	585.4
37.5°	526.0	531.1	544.7	561.7	571.8
40°	505.7	510.8	526.0	544.7	560.0
42.5°	481.9	488.7	505.7	531.1	548.1
45°	458.2	466.6	487.0	517.5	536.2
47.5°	432.7	441.2	464.9	504.0	524.3
50°	407.2	417.4	446.3	488.7	510.8
52.5°	380.1	390.3	427.6	473.4	497.2
55°	351.2	366.5	408.9	456.5	480.2
57.5°	322.4	339.4	386.9	437.8	463.2
60°	291.9	312.2	366.5	417.4	442.9
62.5°	263.0	285.1	344.5	395.4	420.8
65°	232.5	257.9	320.7	371.6	395.4
67.5°	200.2	232.5	293.6	342.8	366.5
70°	168.0	205.3	266.4	312.2	334.3
72.5°	139.1	178.2	235.9	274.9	274.9
75°	110.3	149.3	201.9	205.3	200.2
77.5°	84.8	122.2	157.8	144.2	147.6
80°	62.8	93.3	100.1	105.2	108.6
82.5°	42.4	62.8	64.5	67.9	67.9
85°	27.1	32.2	33.9	32.2	30.5
87.5°	11.9	13.6	10.2	6.8	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)