

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: P260311

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260311
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2249.0 lumens
Efficiency: N/A
Efficacy: 84.0 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

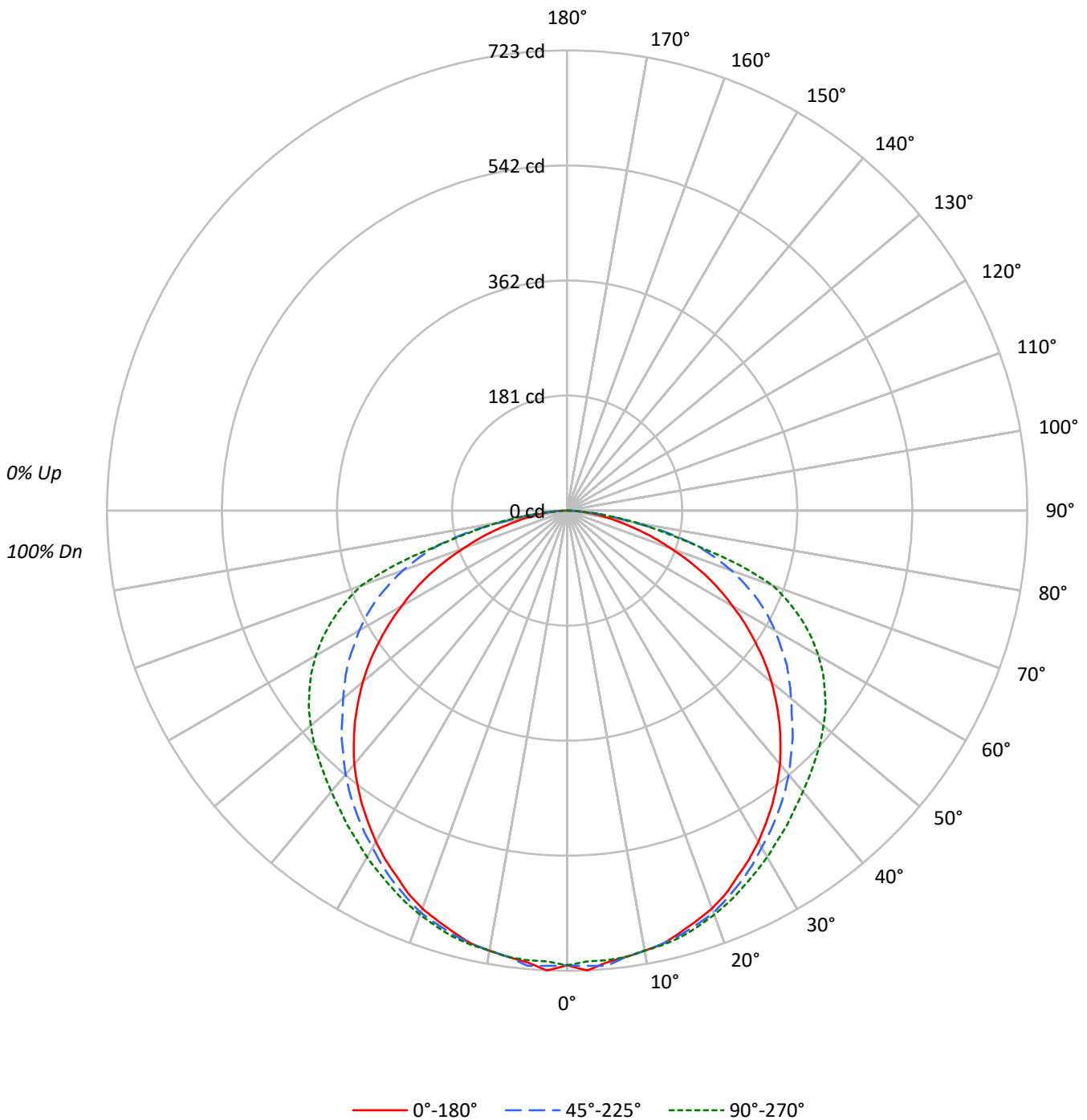
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1922	1922	1922
5°	1925	1939	1915
10°	1918	1918	1918
15°	1912	1922	1932
20°	1905	1926	1936
25°	1882	1914	1939
30°	1867	1899	1954
35°	1848	1899	1980
40°	1828	1902	2025
45°	1795	1908	2100
50°	1755	1923	2201
55°	1696	1975	2319
60°	1617	2031	2454
65°	1524	2102	2591
70°	1360	2157	2707
75°	1180	2161	2143
80°	1001	1596	1733
85°	861	1078	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.0
10°-20°	194.8	8.7
20°-30°	296.8	13.2
30°-40°	363.2	16.1
40°-50°	390.8	17.4
50°-60°	378.5	16.8
60°-70°	320.7	14.3
70°-80°	193.8	8.6
80°-90°	42.6	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°	559.4	24.9
0°-40°	922.6	41.0
0°-60°	1691.9	75.2
0°-90°	2249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	713	713	718	714	709	68
15°	686	688	690	692	693	194
25°	634	638	644	650	653	293
35°	562	566	578	594	603	352
45°	472	480	501	533	552	363
55°	362	377	421	470	494	323
65°	239	266	330	382	407	236
75°	114	154	208	211	206	122
85°	28	33	35	33	31	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.3	714.3	714.3	714.3	714.3
2.5°	723.1	721.3	716.1	712.6	709.1
5°	712.6	712.6	717.8	714.3	709.1
7.5°	707.4	707.4	707.4	716.1	707.4
10°	702.1	703.9	702.1	709.1	702.1
12.5°	696.9	696.9	696.9	698.6	698.6
15°	686.4	688.1	689.9	691.6	693.4
17.5°	675.9	677.7	681.2	682.9	684.7
20°	665.4	667.2	672.4	672.4	675.9
22.5°	651.5	651.5	658.5	660.2	665.4
25°	634.0	637.5	644.5	649.7	653.2
27.5°	618.3	621.8	628.8	635.7	641.0
30°	600.8	604.3	611.3	621.8	628.8
32.5°	581.6	585.1	595.6	607.8	614.8
35°	562.4	565.9	578.1	593.8	602.6
37.5°	541.4	546.7	560.6	578.1	588.6
40°	520.5	525.7	541.4	560.6	576.4
42.5°	496.0	503.0	520.5	546.7	564.1
45°	471.6	480.3	501.3	532.7	551.9
47.5°	445.4	454.1	478.6	518.7	539.7
50°	419.2	429.7	459.3	503.0	525.7
52.5°	391.2	401.7	440.1	487.3	511.7
55°	361.5	377.3	420.9	469.8	494.3
57.5°	331.8	349.3	398.2	450.6	476.8
60°	300.4	321.4	377.3	429.7	455.9
62.5°	270.7	293.4	354.6	406.9	433.1
65°	239.3	265.5	330.1	382.5	406.9
67.5°	206.1	239.3	302.2	352.8	377.3
70°	172.9	211.3	274.2	321.4	344.1
72.5°	143.2	183.4	242.8	282.9	282.9
75°	113.5	153.7	207.8	211.3	206.1
77.5°	87.3	125.8	162.4	148.5	152.0
80°	64.6	96.1	103.0	108.3	111.8
82.5°	43.7	64.6	66.4	69.9	69.9
85°	27.9	33.2	34.9	33.2	31.4
87.5°	12.2	14.0	10.5	7.0	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)