

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: P260316

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260316
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-LD5-39-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: 2504.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

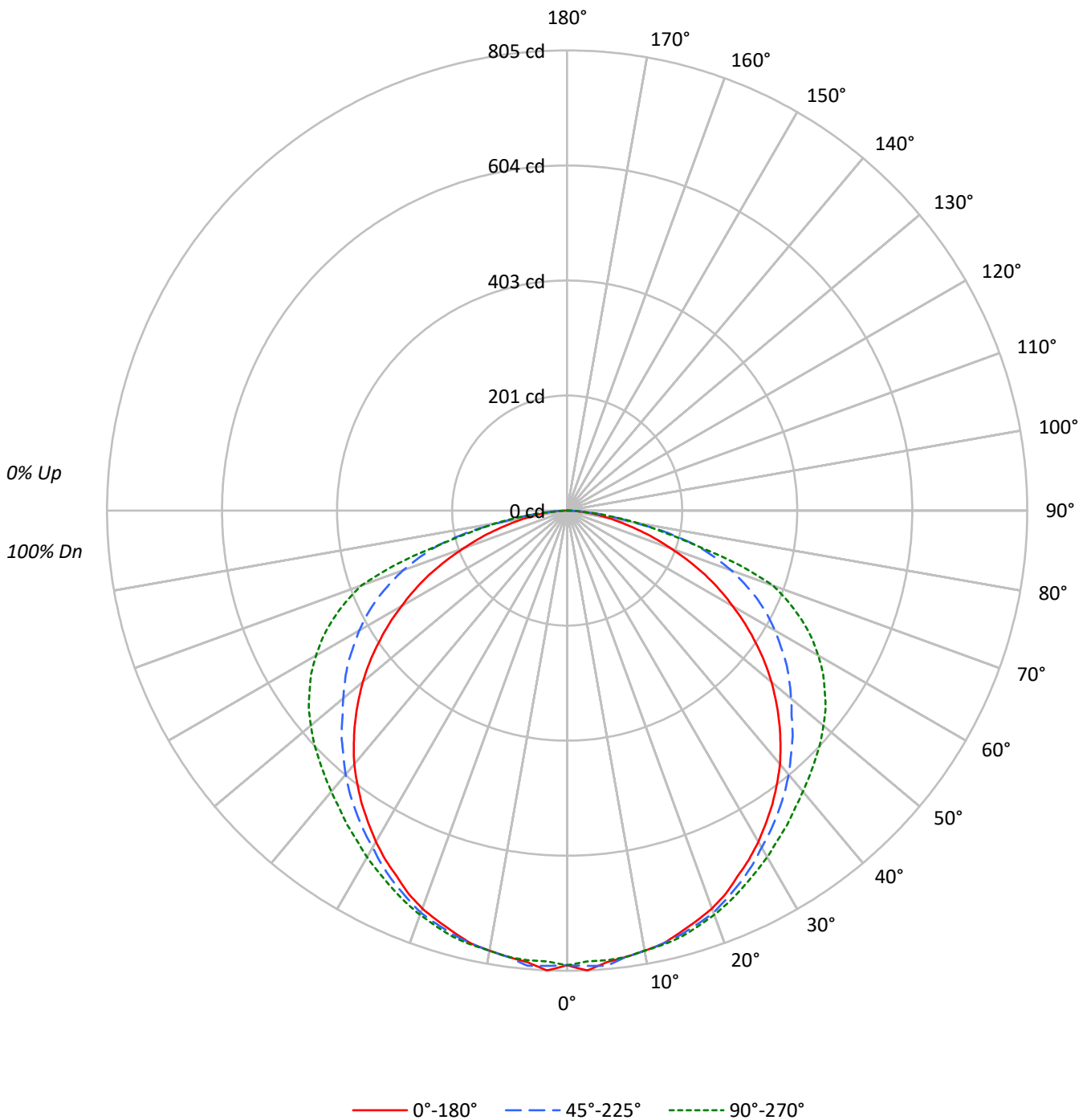
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2140	2140	2140
5°	2143	2159	2133
10°	2136	2136	2136
15°	2129	2140	2151
20°	2122	2144	2155
25°	2096	2131	2159
30°	2078	2115	2175
35°	2057	2115	2204
40°	2036	2118	2254
45°	1998	2124	2339
50°	1954	2141	2450
55°	1888	2198	2582
60°	1800	2260	2731
65°	1696	2340	2885
70°	1515	2402	3014
75°	1314	2406	2386
80°	1114	1777	1929
85°	960	1201	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.0
10°-20°	216.9	8.7
20°-30°	330.5	13.2
30°-40°	404.4	16.1
40°-50°	435.1	17.4
50°-60°	421.4	16.8
60°-70°	357.0	14.3
70°-80°	215.8	8.6
80°-90°	47.4	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°	622.9	24.9
0°-40°	1027.2	41.0
0°-60°	1883.8	75.2
0°-90°	2504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	793	793	799	795	790	75
15°	764	766	768	770	772	216
25°	706	710	718	723	727	326
35°	626	630	644	661	671	392
45°	525	535	558	593	614	405
55°	402	420	469	523	550	360
65°	266	296	368	426	453	262
75°	126	171	231	235	230	136
85°	31	37	39	37	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.3	795.3	795.3	795.3	795.3
2.5°	805.1	803.1	797.3	793.4	789.5
5°	793.4	793.4	799.2	795.3	789.5
7.5°	787.6	787.6	787.6	797.3	787.6
10°	781.7	783.7	781.7	789.5	781.7
12.5°	775.9	775.9	775.9	777.8	777.8
15°	764.2	766.2	768.1	770.1	772.0
17.5°	752.6	754.5	758.4	760.3	762.3
20°	740.9	742.8	748.7	748.7	752.6
22.5°	725.3	725.3	733.1	735.1	740.9
25°	705.9	709.8	717.6	723.4	727.3
27.5°	688.4	692.3	700.1	707.8	713.7
30°	668.9	672.8	680.6	692.3	700.1
32.5°	647.5	651.4	663.1	676.7	684.5
35°	626.2	630.0	643.7	661.2	670.9
37.5°	602.8	608.7	624.2	643.7	655.3
40°	579.5	585.3	602.8	624.2	641.7
42.5°	552.3	560.0	579.5	608.7	628.1
45°	525.0	534.8	558.1	593.1	614.5
47.5°	495.9	505.6	532.8	577.5	600.9
50°	466.7	478.4	511.4	560.0	585.3
52.5°	435.6	447.3	490.0	542.5	569.8
55°	402.5	420.0	468.6	523.1	550.3
57.5°	369.5	388.9	443.4	501.7	530.9
60°	334.5	357.8	420.0	478.4	507.5
62.5°	301.4	326.7	394.8	453.1	482.3
65°	266.4	295.6	367.5	425.9	453.1
67.5°	229.5	266.4	336.4	392.8	420.0
70°	192.5	235.3	305.3	357.8	383.1
72.5°	159.5	204.2	270.3	315.0	315.0
75°	126.4	171.1	231.4	235.3	229.5
77.5°	97.2	140.0	180.8	165.3	169.2
80°	71.9	107.0	114.7	120.6	124.5
82.5°	48.6	71.9	73.9	77.8	77.8
85°	31.1	36.9	38.9	36.9	35.0
87.5°	13.6	15.6	11.7	7.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)