

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: P259196

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259196
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-LD5-39-SQP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

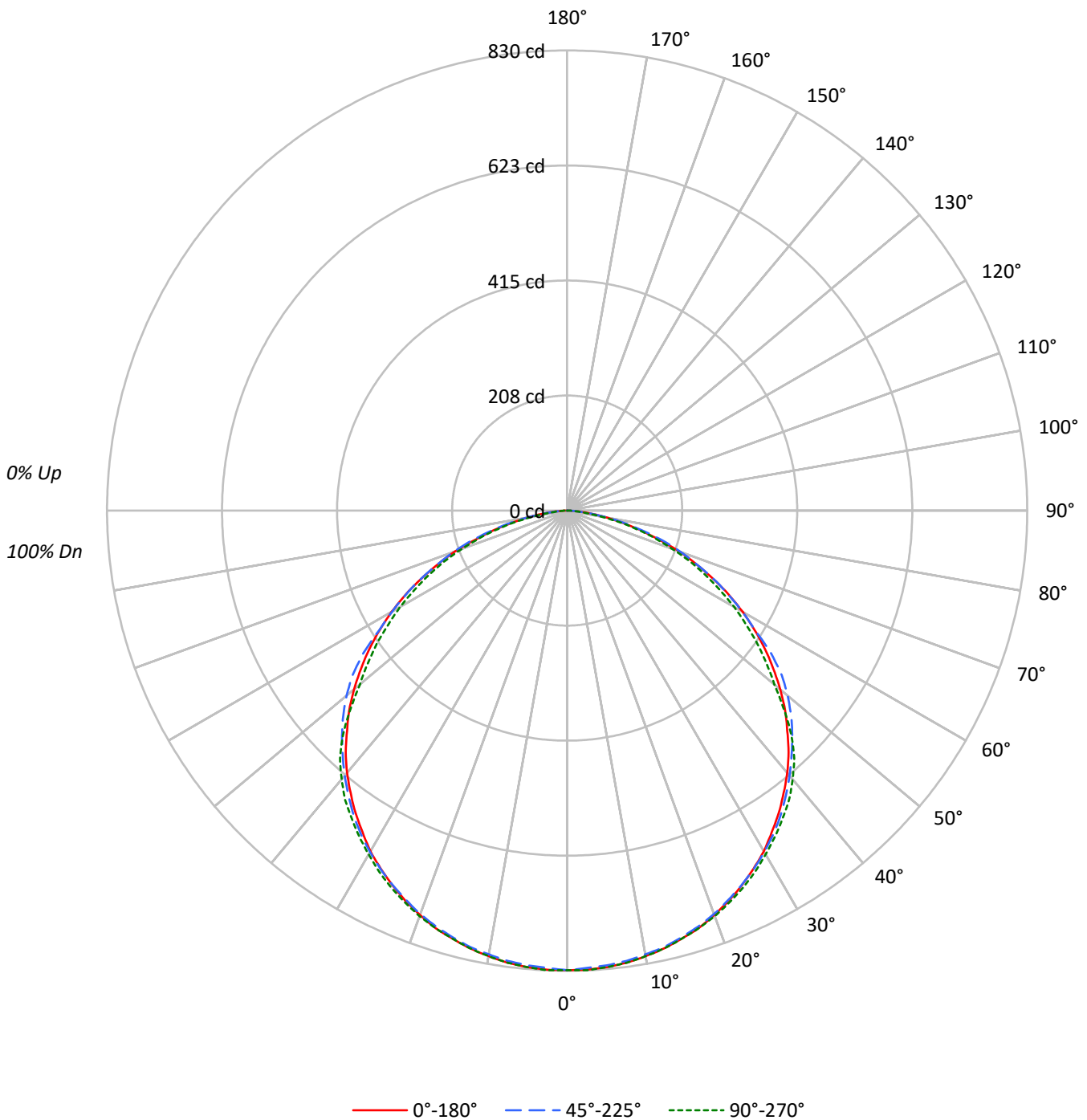
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2231	2231	2231
5°	2233	2224	2233
10°	2230	2221	2230
15°	2227	2220	2227
20°	2223	2218	2229
25°	2214	2212	2228
30°	2205	2210	2225
35°	2187	2205	2226
40°	2170	2192	2223
45°	2137	2186	2177
50°	2100	2174	2043
55°	2046	2106	1967
60°	1968	1963	1873
65°	1844	1854	1752
70°	1693	1712	1586
75°	1422	1489	1356
80°	1128	1153	955
85°	741	642	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.3
10°-20°	225.6	9.6
20°-30°	344.5	14.6
30°-40°	420.3	17.8
40°-50°	439.5	18.6
50°-60°	389.1	16.5
60°-70°	286.5	12.1
70°-80°	148.3	6.3
80°-90°	29.6	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°	648.6	27.5
0°-40°	1069.0	45.3
0°-60°	1897.6	80.3
0°-90°	2362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	826	826	823	826	826	79
15°	799	799	797	800	799	226
25°	746	746	745	750	750	344
35°	666	667	671	678	678	416
45°	562	566	574	579	572	434
55°	436	445	449	426	419	389
65°	290	307	291	280	275	287
75°	137	146	143	134	130	146
85°	24	26	21	18	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.9	828.9	828.9	828.9	828.9
2.5°	828.9	828.9	825.7	828.9	829.7
5°	826.5	826.5	823.3	826.5	826.5
7.5°	822.5	821.7	819.3	822.5	822.5
10°	816.1	816.1	812.9	816.9	816.1
12.5°	808.9	808.1	806.5	809.7	808.9
15°	799.3	799.3	796.9	800.1	799.3
17.5°	789.7	788.9	786.5	789.7	789.7
20°	776.1	775.3	774.5	777.7	778.5
22.5°	761.7	760.9	760.1	764.9	764.9
25°	745.7	745.7	744.9	749.7	750.5
27.5°	728.1	728.1	728.9	735.3	734.5
30°	709.7	709.7	711.3	716.1	716.1
32.5°	687.3	688.9	692.1	697.7	697.7
35°	665.7	667.3	671.3	677.7	677.7
37.5°	641.7	644.1	648.1	656.1	657.7
40°	617.7	619.3	624.1	632.9	632.9
42.5°	591.2	592.8	599.2	608.0	606.4
45°	561.6	566.4	574.4	579.2	572.0
47.5°	533.6	536.8	548.0	542.4	530.4
50°	501.6	508.0	519.2	499.2	488.0
52.5°	468.8	476.0	488.0	460.0	453.6
55°	436.0	444.8	448.8	425.6	419.2
57.5°	400.8	410.4	402.4	388.8	382.4
60°	365.6	376.8	364.8	352.0	348.0
62.5°	328.8	341.6	328.0	316.8	311.2
65°	289.6	307.2	291.2	280.0	275.2
67.5°	251.2	269.6	252.8	243.2	240.0
70°	215.2	225.6	217.6	208.0	201.6
72.5°	172.0	182.4	180.8	170.4	166.4
75°	136.8	146.4	143.2	134.4	130.4
77.5°	101.6	112.0	108.8	98.4	96.8
80°	72.8	80.0	74.4	64.8	61.6
82.5°	45.6	51.2	44.0	36.8	35.2
85°	24.0	25.6	20.8	18.4	17.6
87.5°	8.0	8.8	8.8	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)