

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: P259101

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259101
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-LD5-20-SQP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1284.0 lumens
Efficiency: N/A
Efficacy: 84.2 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

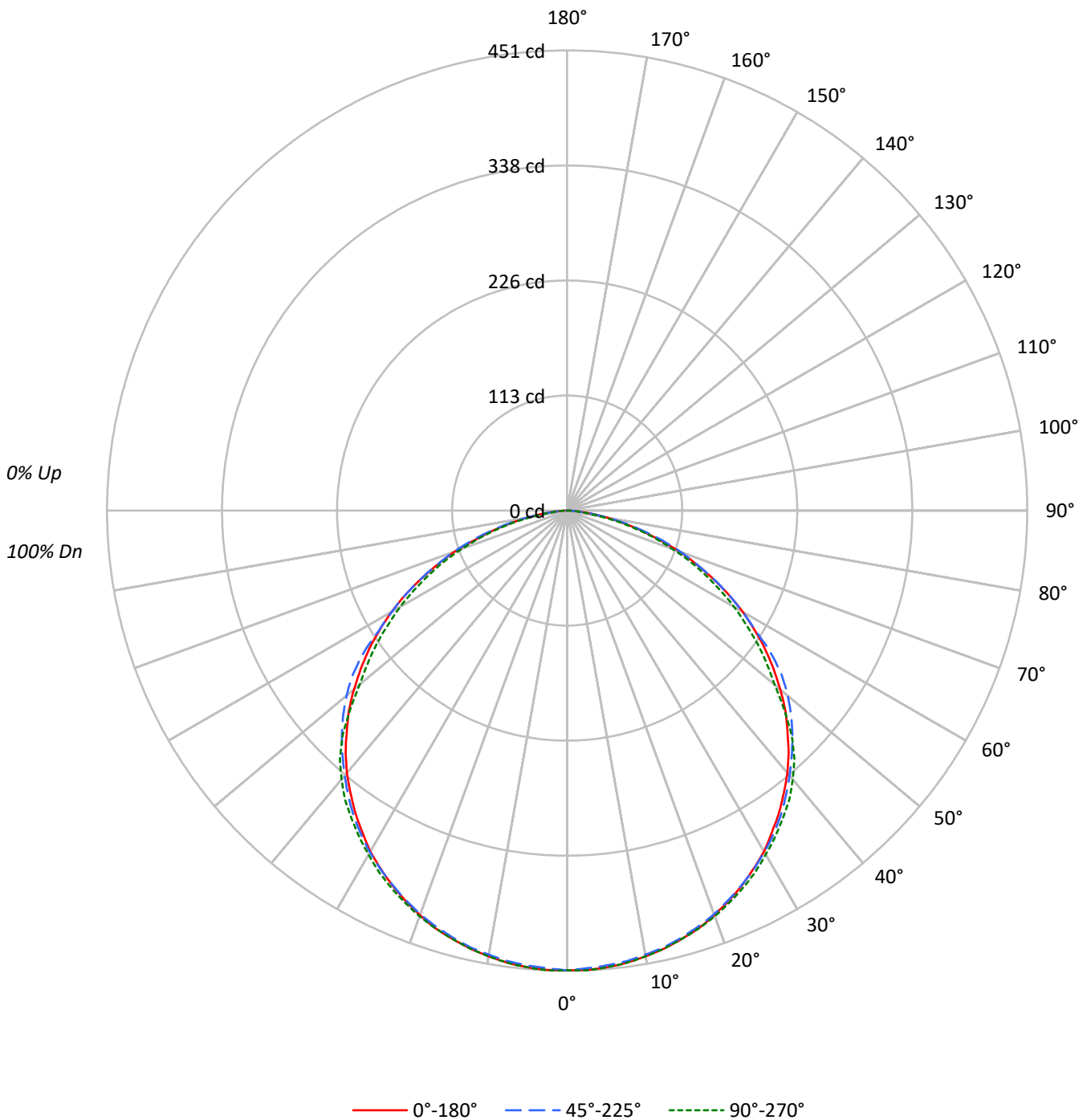
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1213	1213	1213
5°	1214	1209	1214
10°	1212	1207	1212
15°	1210	1207	1210
20°	1208	1206	1212
25°	1203	1202	1211
30°	1199	1201	1210
35°	1189	1199	1210
40°	1180	1192	1208
45°	1162	1188	1184
50°	1142	1182	1111
55°	1112	1145	1069
60°	1070	1067	1018
65°	1002	1008	953
70°	921	931	862
75°	774	810	737
80°	614	626	519
85°	401	349	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	3.3
10°-20°	122.6	9.6
20°-30°	187.3	14.6
30°-40°	228.5	17.8
40°-50°	238.9	18.6
50°-60°	211.5	16.5
60°-70°	155.8	12.1
70°-80°	80.6	6.3
80°-90°	16.1	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°	352.6	27.5
0°-40°	581.1	45.3
0°-60°	1031.5	80.3
0°-90°	1284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	449	449	448	449	449	43
15°	434	434	433	435	434	123
25°	405	405	405	408	408	187
35°	362	363	365	368	368	226
45°	305	308	312	315	311	236
55°	237	242	244	231	228	211
65°	157	167	158	152	150	156
75°	74	80	78	73	71	79
85°	13	14	11	10	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	450.6	450.6	450.6	450.6	450.6
2.5°	450.6	450.6	448.8	450.6	451.0
5°	449.3	449.3	447.5	449.3	449.3
7.5°	447.1	446.7	445.4	447.1	447.1
10°	443.6	443.6	441.9	444.1	443.6
12.5°	439.7	439.3	438.4	440.1	439.7
15°	434.5	434.5	433.2	434.9	434.5
17.5°	429.3	428.8	427.5	429.3	429.3
20°	421.9	421.4	421.0	422.7	423.2
22.5°	414.0	413.6	413.2	415.8	415.8
25°	405.3	405.3	404.9	407.5	408.0
27.5°	395.8	395.8	396.2	399.7	399.3
30°	385.8	385.8	386.6	389.3	389.3
32.5°	373.6	374.5	376.2	379.3	379.3
35°	361.9	362.7	364.9	368.4	368.4
37.5°	348.8	350.1	352.3	356.6	357.5
40°	335.8	336.6	339.2	344.0	344.0
42.5°	321.4	322.3	325.8	330.5	329.7
45°	305.3	307.9	312.3	314.9	311.0
47.5°	290.1	291.8	297.9	294.9	288.4
50°	272.7	276.2	282.3	271.4	265.3
52.5°	254.9	258.8	265.3	250.1	246.6
55°	237.0	241.8	244.0	231.4	227.9
57.5°	217.9	223.1	218.8	211.4	207.9
60°	198.8	204.8	198.3	191.4	189.2
62.5°	178.8	185.7	178.3	172.2	169.2
65°	157.4	167.0	158.3	152.2	149.6
67.5°	136.6	146.6	137.4	132.2	130.5
70°	117.0	122.6	118.3	113.1	109.6
72.5°	93.5	99.2	98.3	92.6	90.5
75°	74.4	79.6	77.9	73.1	70.9
77.5°	55.2	60.9	59.1	53.5	52.6
80°	39.6	43.5	40.4	35.2	33.5
82.5°	24.8	27.8	23.9	20.0	19.1
85°	13.0	13.9	11.3	10.0	9.6
87.5°	4.3	4.8	4.8	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)