

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: P259162

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259162
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-L92765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1291.0 lumens
Efficiency: N/A
Efficacy: 80.2 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

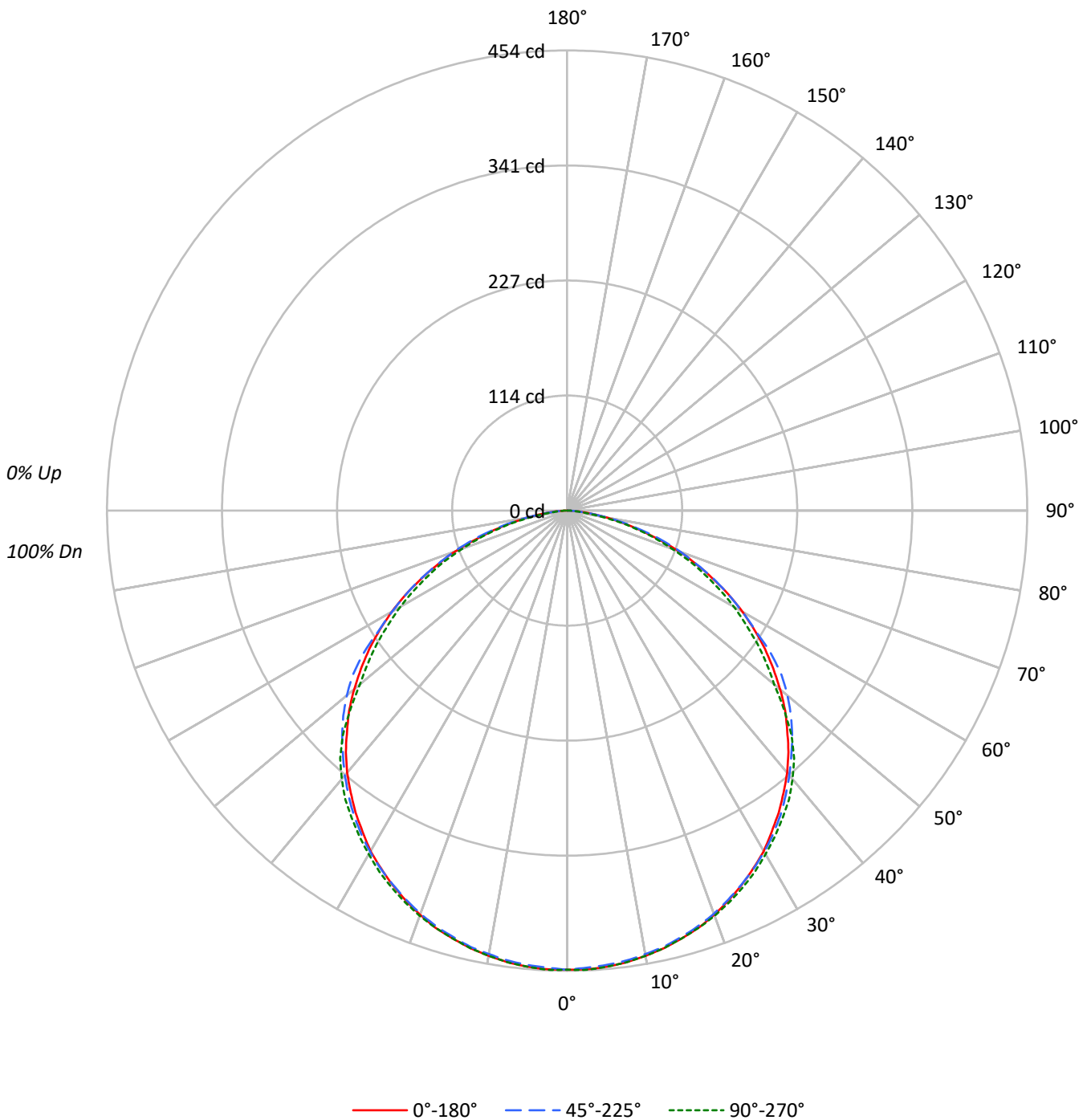
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1219	1219	1219
5°	1220	1216	1220
10°	1219	1214	1219
15°	1217	1213	1217
20°	1215	1212	1218
25°	1210	1209	1218
30°	1205	1208	1216
35°	1195	1205	1217
40°	1186	1198	1215
45°	1168	1195	1190
50°	1148	1188	1117
55°	1118	1151	1075
60°	1075	1073	1024
65°	1008	1014	958
70°	925	935	867
75°	778	814	741
80°	617	631	522
85°	404	352	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	3.3
10°-20°	123.3	9.6
20°-30°	188.3	14.6
30°-40°	229.7	17.8
40°-50°	240.2	18.6
50°-60°	212.7	16.5
60°-70°	156.6	12.1
70°-80°	81.1	6.3
80°-90°	16.2	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°	354.5	27.5
0°-40°	584.2	45.3
0°-60°	1037.1	80.3
0°-90°	1291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	453	453	453	453	453	
5°	452	452	450	452	452	43
15°	437	437	436	437	437	123
25°	408	408	407	410	410	188
35°	364	365	367	370	370	228
45°	307	310	314	317	313	237
55°	238	243	245	233	229	213
65°	158	168	159	153	150	157
75°	75	80	78	74	71	80
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°	453.0	453.0	453.0	453.0	453.0
2.5°	453.0	453.0	451.3	453.0	453.5
5°	451.7	451.7	450.0	451.7	451.7
7.5°	449.5	449.1	447.8	449.5	449.5
10°	446.0	446.0	444.3	446.5	446.0
12.5°	442.1	441.7	440.8	442.5	442.1
15°	436.9	436.9	435.5	437.3	436.9
17.5°	431.6	431.2	429.9	431.6	431.6
20°	424.2	423.7	423.3	425.0	425.5
22.5°	416.3	415.9	415.4	418.1	418.1
25°	407.6	407.6	407.1	409.7	410.2
27.5°	397.9	397.9	398.4	401.9	401.4
30°	387.9	387.9	388.8	391.4	391.4
32.5°	375.6	376.5	378.3	381.3	381.3
35°	363.8	364.7	366.9	370.4	370.4
37.5°	350.7	352.0	354.2	358.6	359.5
40°	337.6	338.5	341.1	345.9	345.9
42.5°	323.2	324.0	327.5	332.3	331.5
45°	307.0	309.6	314.0	316.6	312.7
47.5°	291.7	293.4	299.5	296.5	289.9
50°	274.2	277.7	283.8	272.9	266.7
52.5°	256.3	260.2	266.7	251.4	247.9
55°	238.3	243.1	245.3	232.6	229.1
57.5°	219.1	224.3	220.0	212.5	209.0
60°	199.8	206.0	199.4	192.4	190.2
62.5°	179.7	186.7	179.3	173.2	170.1
65°	158.3	167.9	159.2	153.1	150.4
67.5°	137.3	147.4	138.2	132.9	131.2
70°	117.6	123.3	118.9	113.7	110.2
72.5°	94.0	99.7	98.8	93.1	91.0
75°	74.8	80.0	78.3	73.5	71.3
77.5°	55.5	61.2	59.5	53.8	52.9
80°	39.8	43.7	40.7	35.4	33.7
82.5°	24.9	28.0	24.1	20.1	19.2
85°	13.1	14.0	11.4	10.1	9.6
87.5°	4.4	4.8	4.8	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)