

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: P258630

Luminaire Tested: **14CZ-LD5-35-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-UNV-L82765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3685.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

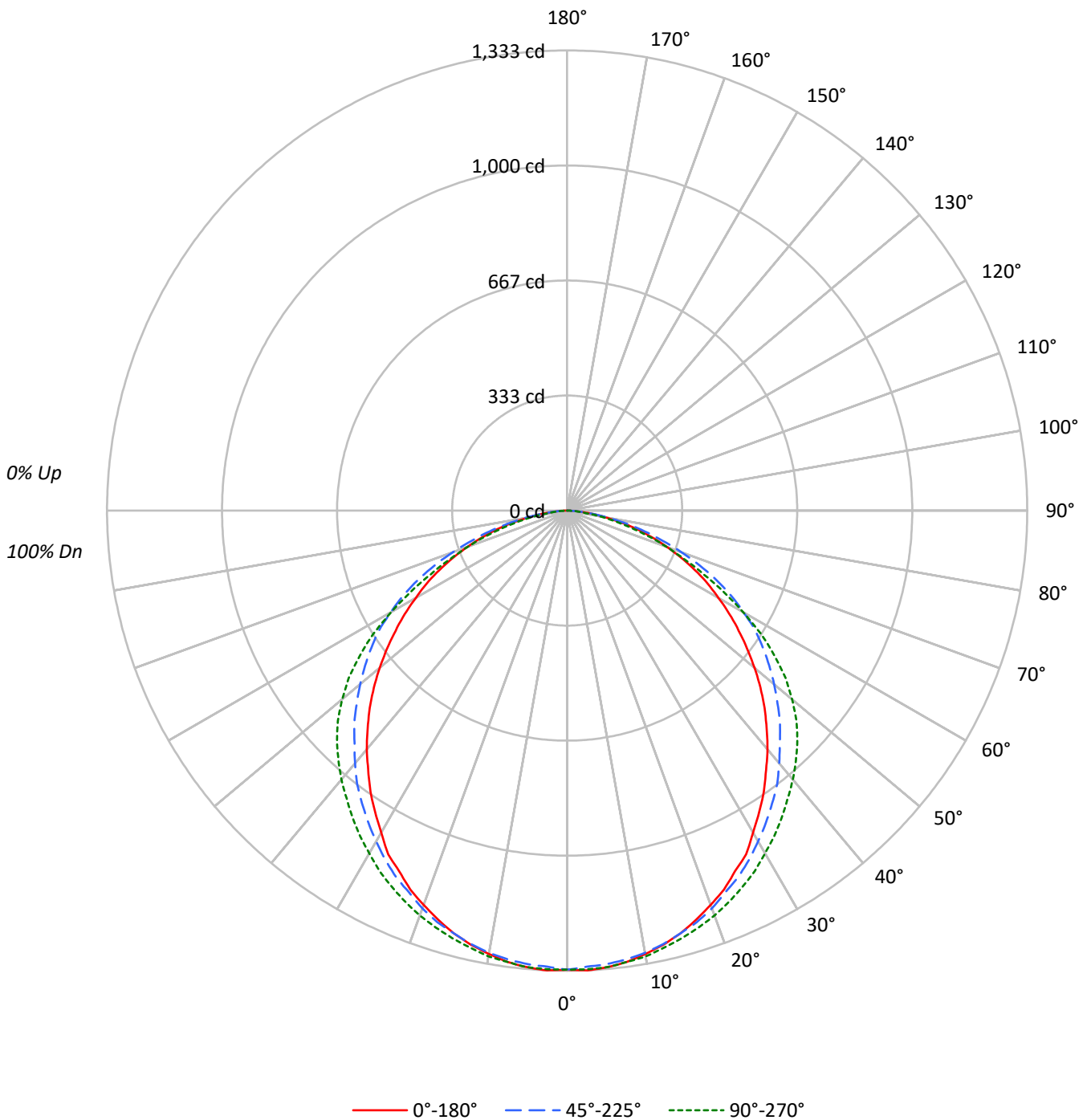
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3578	3578	3578
5°	3587	3563	3587
10°	3564	3554	3584
15°	3533	3533	3573
20°	3481	3512	3574
25°	3420	3479	3571
30°	3347	3438	3562
35°	3264	3402	3563
40°	3172	3357	3574
45°	3076	3318	3588
50°	2966	3278	3559
55°	2847	3248	3443
60°	2728	3178	3168
65°	2603	3042	2776
70°	2415	2773	2401
75°	2191	2417	1984
80°	1745	1914	1464
85°	1235	1065	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.4
10°-20°	359.4	9.8
20°-30°	542.0	14.7
30°-40°	649.6	17.6
40°-50°	674.2	18.3
50°-60°	608.1	16.5
60°-70°	443.6	12.0
70°-80°	232.7	6.3
80°-90°	49.6	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°	1027.2	27.9
0°-40°	1676.9	45.5
0°-60°	2959.1	80.3
0°-90°	3685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1328	1324	1319	1328	1328	126
15°	1268	1268	1268	1283	1283	357
25°	1152	1157	1172	1197	1203	532
35°	994	1005	1036	1074	1085	621
45°	808	825	872	925	943	623
55°	607	629	692	738	734	543
65°	409	432	478	460	436	404
75°	211	240	232	202	191	221
85°	40	49	34	29	27	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.8	1329.8	1329.8	1329.8	1329.8
2.5°	1333.4	1329.8	1322.5	1329.8	1329.8
5°	1328.0	1324.4	1318.9	1328.0	1328.0
7.5°	1318.9	1315.3	1311.6	1320.7	1318.9
10°	1304.4	1302.6	1300.7	1311.6	1311.6
12.5°	1288.0	1288.0	1286.2	1298.9	1297.1
15°	1268.0	1268.0	1268.0	1282.6	1282.6
17.5°	1242.6	1246.2	1249.9	1266.2	1266.2
20°	1215.4	1219.0	1226.3	1246.2	1248.1
22.5°	1188.1	1189.9	1197.2	1220.8	1226.3
25°	1151.8	1157.2	1171.8	1197.2	1202.6
27.5°	1122.7	1124.5	1140.9	1169.9	1177.2
30°	1077.3	1090.0	1106.4	1139.1	1146.3
32.5°	1035.5	1046.4	1071.8	1106.4	1117.3
35°	993.7	1004.6	1035.5	1073.7	1084.6
37.5°	946.5	962.8	999.2	1037.3	1050.0
40°	902.9	917.4	955.6	1002.8	1017.3
42.5°	855.7	870.2	912.0	964.7	981.0
45°	808.4	824.8	872.0	924.7	942.9
47.5°	759.4	777.5	826.6	884.7	901.1
50°	708.5	728.5	783.0	842.9	850.2
52.5°	657.6	679.4	737.6	790.3	797.5
55°	606.8	628.6	692.2	737.6	733.9
57.5°	557.7	581.3	646.7	670.4	666.7
60°	506.9	532.3	590.4	601.3	588.6
62.5°	459.6	483.2	537.7	528.7	512.3
65°	408.8	432.4	477.8	459.6	436.0
67.5°	357.9	387.0	416.0	385.1	367.0
70°	307.0	339.7	352.4	321.6	305.2
72.5°	258.0	292.5	288.9	258.0	247.1
75°	210.7	239.8	232.5	201.7	190.8
77.5°	159.9	192.6	176.2	150.8	141.7
80°	112.6	141.7	123.5	101.7	94.5
82.5°	74.5	94.5	76.3	60.0	54.5
85°	40.0	49.1	34.5	29.1	27.3
87.5°	16.4	14.5	12.7	12.7	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)