

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: P258553

Luminaire Tested: **14CZ-LD5-35-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258553
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-L83050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3711.8 lumens
Efficiency: N/A
Efficacy: 132.2 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

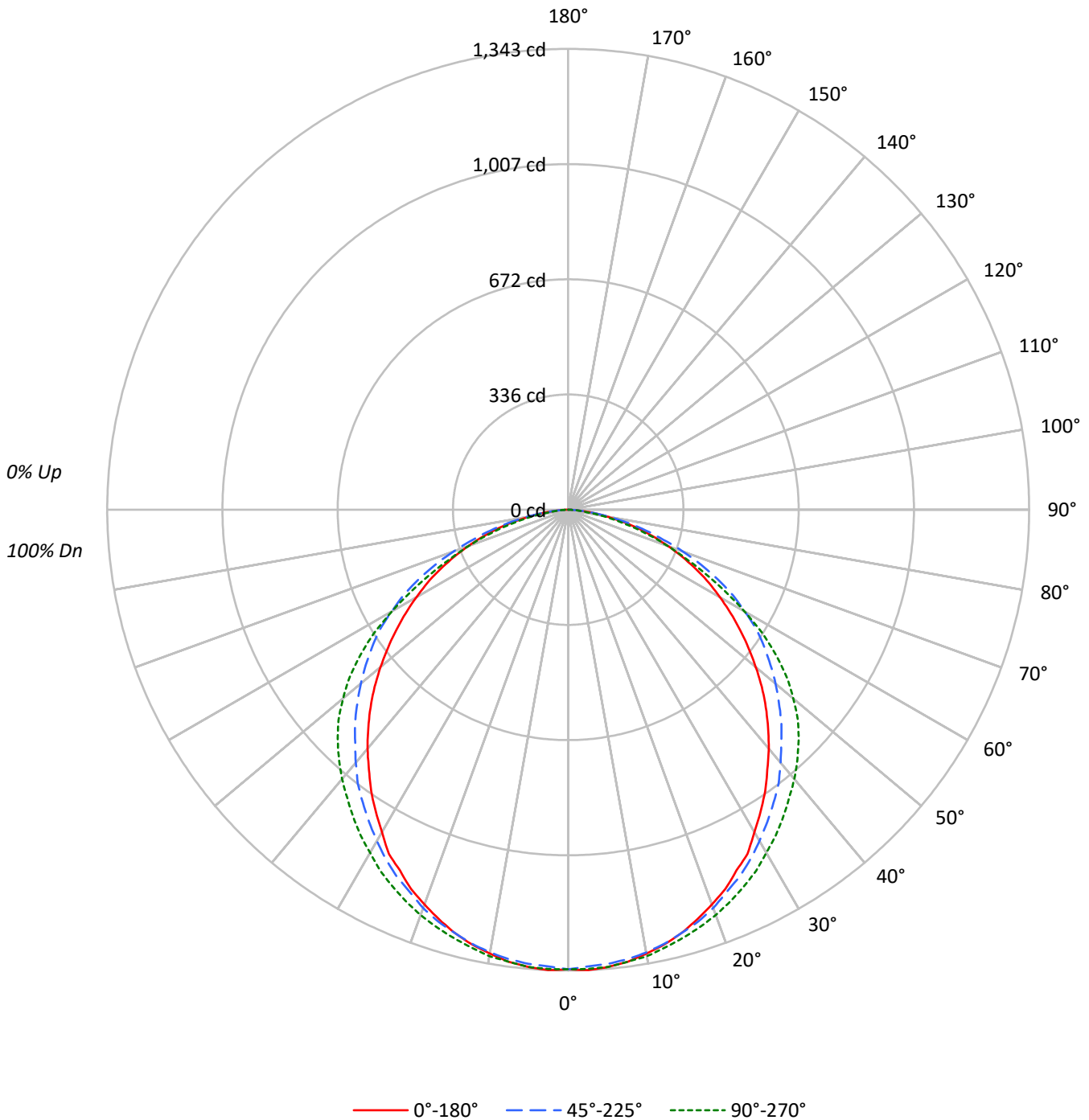
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3605	3605	3605
5°	3613	3589	3613
10°	3590	3580	3610
15°	3558	3558	3599
20°	3506	3537	3600
25°	3445	3505	3597
30°	3372	3463	3588
35°	3288	3426	3589
40°	3195	3381	3600
45°	3099	3342	3614
50°	2987	3302	3585
55°	2867	3271	3468
60°	2747	3201	3191
65°	2621	3065	2797
70°	2433	2793	2419
75°	2207	2435	1997
80°	1759	1928	1475
85°	1244	1074	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.4
10°-20°	362.1	9.8
20°-30°	545.9	14.7
30°-40°	654.3	17.6
40°-50°	679.1	18.3
50°-60°	612.5	16.5
60°-70°	446.8	12.0
70°-80°	234.4	6.3
80°-90°	50.0	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°	1034.7	27.9
0°-40°	1689.0	45.5
0°-60°	2980.6	80.3
0°-90°	3711.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3711.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1338	1334	1328	1338	1338	127
15°	1277	1277	1277	1292	1292	360
25°	1160	1166	1180	1206	1211	535
35°	1001	1012	1043	1082	1092	625
45°	814	831	878	931	950	628
55°	611	633	697	743	739	547
65°	412	436	481	463	439	407
75°	212	242	234	203	192	223
85°	40	49	35	29	27	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.5	1339.5	1339.5	1339.5	1339.5
2.5°	1343.1	1339.5	1332.1	1339.5	1339.5
5°	1337.6	1334.0	1328.5	1337.6	1337.6
7.5°	1328.5	1324.8	1321.2	1330.3	1328.5
10°	1313.8	1312.0	1310.2	1321.2	1321.2
12.5°	1297.4	1297.4	1295.5	1308.4	1306.5
15°	1277.2	1277.2	1277.2	1291.9	1291.9
17.5°	1251.6	1255.3	1259.0	1275.4	1275.4
20°	1224.2	1227.8	1235.2	1255.3	1257.1
22.5°	1196.7	1198.6	1205.9	1229.7	1235.2
25°	1160.1	1165.6	1180.3	1205.9	1211.4
27.5°	1130.9	1132.7	1149.2	1178.4	1185.8
30°	1085.1	1097.9	1114.4	1147.3	1154.6
32.5°	1043.0	1054.0	1079.6	1114.4	1125.4
35°	1000.9	1011.9	1043.0	1081.5	1092.4
37.5°	953.4	969.8	1006.4	1044.9	1057.7
40°	909.4	924.1	962.5	1010.1	1024.7
42.5°	861.9	876.5	918.6	971.7	988.1
45°	814.3	830.8	878.3	931.4	949.7
47.5°	764.9	783.2	832.6	891.1	907.6
50°	713.6	733.8	788.7	849.1	856.4
52.5°	662.4	684.4	742.9	796.0	803.3
55°	611.2	633.1	697.2	742.9	739.3
57.5°	561.8	585.6	651.4	675.2	671.6
60°	510.5	536.2	594.7	605.7	592.9
62.5°	463.0	486.7	541.6	532.5	516.0
65°	411.7	435.5	481.3	463.0	439.2
67.5°	360.5	389.8	419.0	387.9	369.6
70°	309.2	342.2	355.0	323.9	307.4
72.5°	259.8	294.6	290.9	259.8	248.9
75°	212.3	241.5	234.2	203.1	192.1
77.5°	161.0	194.0	177.5	151.9	142.7
80°	113.5	142.7	124.4	102.5	95.2
82.5°	75.0	95.2	76.9	60.4	54.9
85°	40.3	49.4	34.8	29.3	27.4
87.5°	16.5	14.6	12.8	12.8	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)