

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: P258795

Luminaire Tested: **14CZ-LD5-35-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3663.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

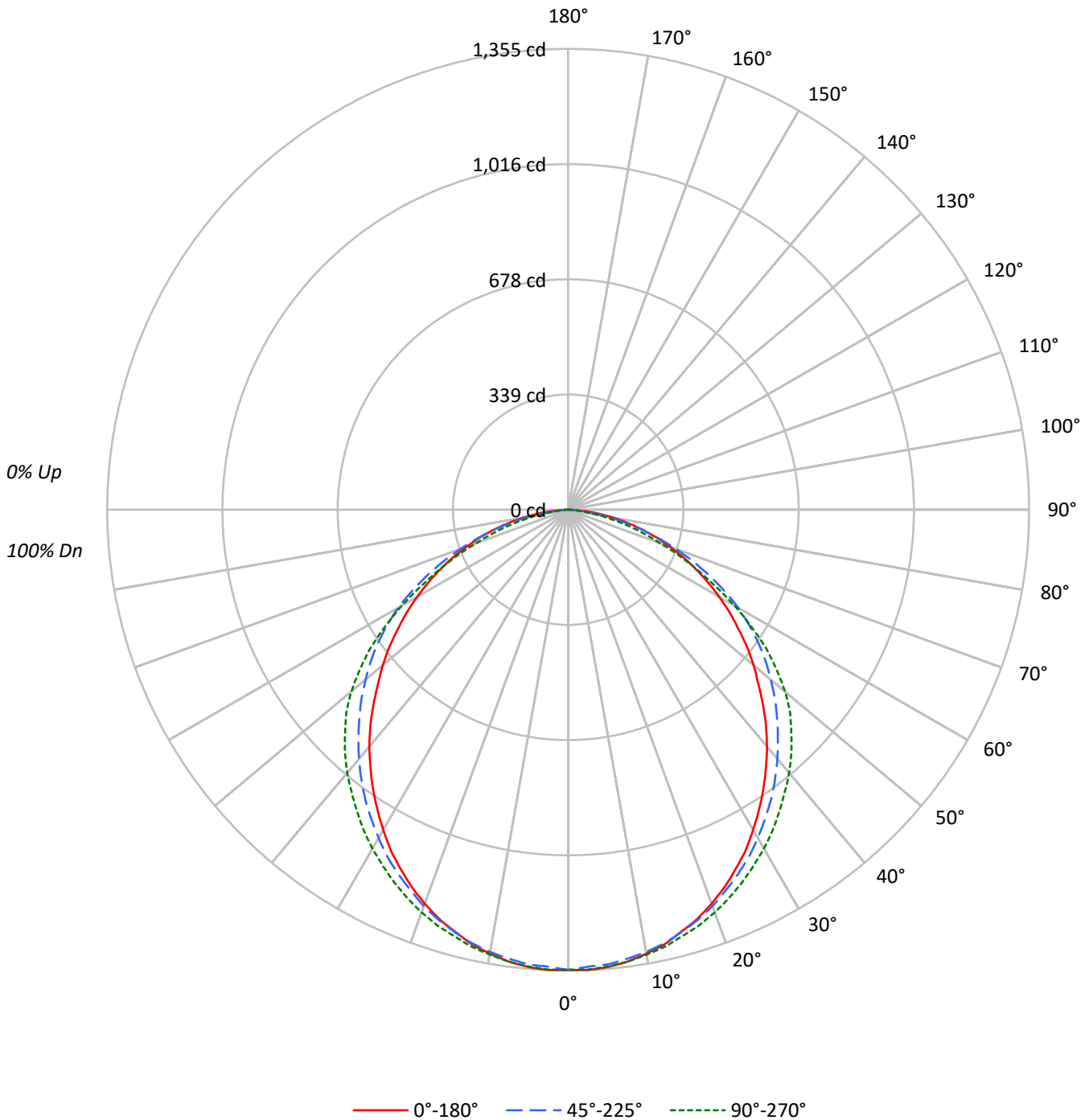
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3641	3641	3641
5°	3646	3624	3642
10°	3622	3608	3630
15°	3579	3583	3615
20°	3529	3552	3609
25°	3460	3509	3591
30°	3378	3464	3576
35°	3287	3415	3555
40°	3194	3360	3549
45°	3081	3304	3528
50°	2979	3252	3485
55°	2864	3201	3331
60°	2758	3110	3039
65°	2640	2910	2671
70°	2492	2645	2260
75°	2325	2292	1866
80°	2049	1771	1365
85°	1612	855	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.5
10°-20°	364.3	9.9
20°-30°	546.6	14.9
30°-40°	651.7	17.8
40°-50°	671.3	18.3
50°-60°	598.2	16.3
60°-70°	431.0	11.8
70°-80°	225.4	6.2
80°-90°	46.6	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°	1038.7	28.4
0°-40°	1690.4	46.1
0°-60°	2959.9	80.8
0°-90°	3663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1350	1347	1342	1350	1348	128
15°	1285	1286	1286	1299	1298	362
25°	1165	1172	1182	1205	1210	537
35°	1001	1014	1040	1074	1082	626
45°	810	828	868	917	927	625
55°	610	630	682	713	710	547
65°	415	429	457	436	420	411
75°	224	235	220	191	180	237
85°	52	46	28	24	24	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.1	1353.1	1353.1	1353.1	1353.1
2.5°	1354.7	1351.5	1345.0	1353.1	1353.1
5°	1349.8	1346.6	1341.7	1349.8	1348.2
7.5°	1340.1	1336.8	1331.9	1341.7	1340.1
10°	1325.4	1323.7	1320.5	1330.3	1328.6
12.5°	1309.0	1307.4	1305.8	1315.6	1315.6
15°	1284.6	1286.2	1286.2	1299.3	1297.6
17.5°	1261.7	1263.3	1265.0	1281.3	1281.3
20°	1232.3	1234.0	1240.5	1258.4	1260.1
22.5°	1201.3	1202.9	1211.1	1232.3	1235.6
25°	1165.4	1171.9	1181.7	1204.6	1209.5
27.5°	1129.5	1134.4	1150.7	1176.8	1180.1
30°	1087.1	1096.9	1114.8	1144.2	1150.7
32.5°	1044.6	1056.0	1077.3	1109.9	1118.1
35°	1000.6	1013.6	1039.7	1074.0	1082.2
37.5°	954.9	966.3	998.9	1034.8	1046.3
40°	909.1	920.6	956.5	997.3	1010.3
42.5°	860.2	876.5	912.4	958.1	971.2
45°	809.6	827.5	868.3	917.3	927.1
47.5°	757.4	776.9	824.3	873.2	884.7
50°	711.6	729.6	776.9	824.3	832.4
52.5°	662.7	679.0	731.2	770.4	772.0
55°	610.5	630.0	682.3	713.3	710.0
57.5°	563.1	579.4	630.0	646.4	636.6
60°	512.5	527.2	577.8	579.4	564.7
62.5°	463.6	478.2	517.4	506.0	488.0
65°	414.6	429.3	457.0	435.8	419.5
67.5°	367.3	380.3	396.6	368.9	352.6
70°	316.7	334.6	336.2	303.6	287.3
72.5°	272.6	282.4	279.1	248.1	233.4
75°	223.6	235.0	220.4	191.0	179.5
77.5°	177.9	186.1	166.5	138.7	130.6
80°	132.2	137.1	114.3	93.0	88.1
82.5°	89.8	89.8	65.3	50.6	45.7
85°	52.2	45.7	27.7	24.5	24.5
87.5°	18.0	11.4	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)