

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: P#

Luminaire Tested: **14CZ-LD5-35-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
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-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

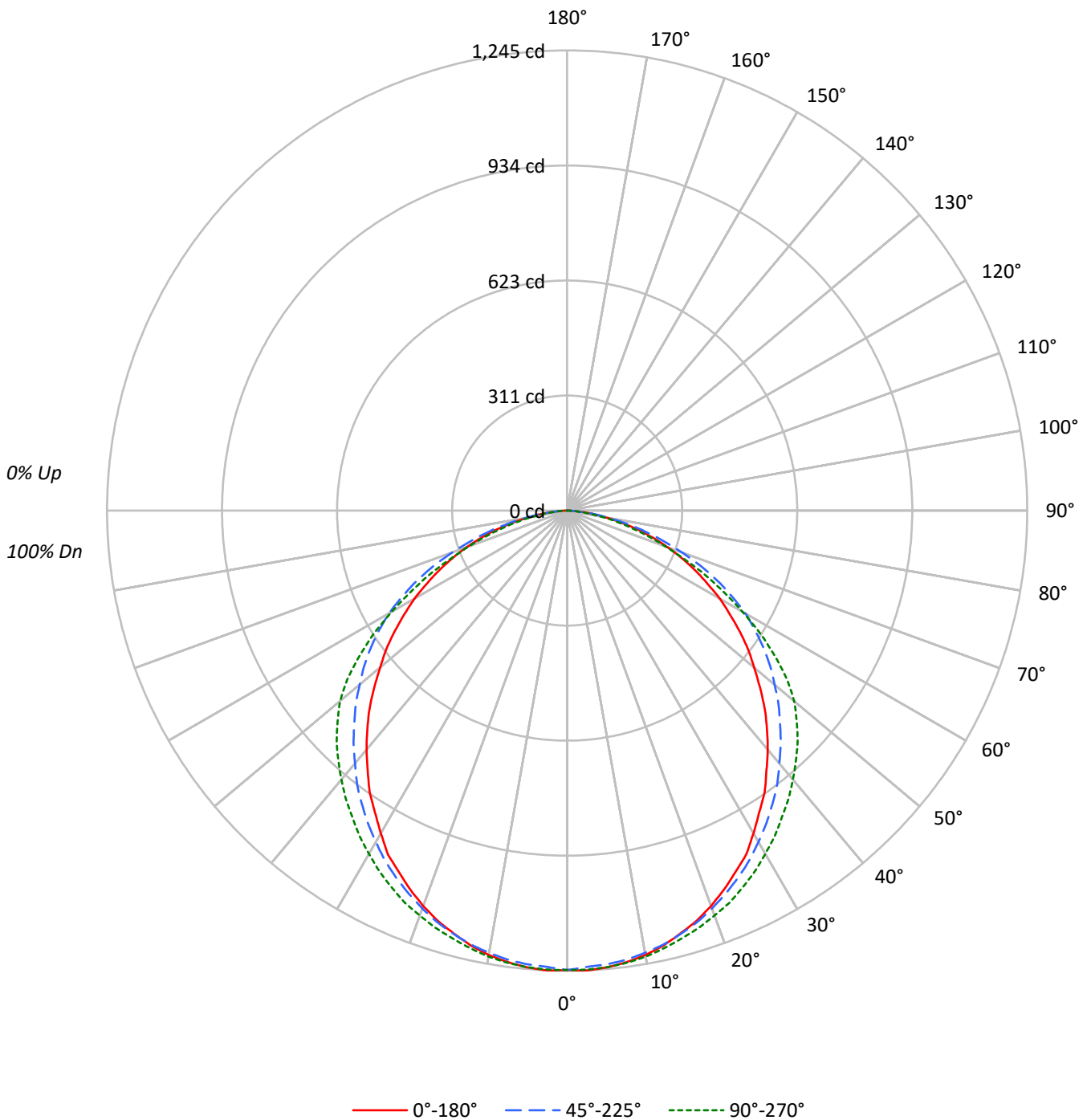
Lumens per Lamp: N/A
Luminaire Lumens: 3447.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 31.48
Input Voltage (V): NR
Input Current (A_{in}): 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	66	88	78	71	65	75	69	64		73	67	63		70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	46		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3345	3345	3345
5°	3344	3303	3320
10°	3321	3269	3291
15°	3278	3228	3252
20°	3230	3179	3221
25°	3164	3124	3190
30°	3088	3061	3150
35°	3007	2996	3110
40°	2904	2919	3080
45°	2806	2847	3051
50°	2684	2775	3000
55°	2580	2702	2815
60°	2462	2601	2515
65°	2306	2400	2161
70°	2124	2087	1740
75°	1873	1701	1355
80°	1443	1183	905
85°	910	507	344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	3.4
10°-20°	336.0	9.7
20°-30°	506.9	14.7
30°-40°	607.8	17.6
40°-50°	630.7	18.3
50°-60°	569.4	16.5
60°-70°	414.7	12.0
70°-80°	217.5	6.3
80°-90°	46.5	1.4
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°	960.4	27.9
0°-40°	1568.2	45.5
0°-60°	2768.3	80.3
0°-90°	3447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1240	1238	1232	1240	1240	118
15°	1184	1184	1186	1199	1198	334
25°	1078	1084	1095	1119	1124	497
35°	931	940	968	1005	1013	581
45°	756	772	814	865	882	582
55°	570	589	649	687	686	509
65°	382	405	448	428	412	378
75°	197	225	218	188	179	207
85°	38	45	33	26	24	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.0	1243.0	1243.0	1243.0	1243.0
2.5°	1245.4	1242.2	1235.6	1243.8	1243.0
5°	1240.5	1238.0	1232.2	1240.5	1239.8
7.5°	1232.2	1230.6	1225.7	1234.7	1234.0
10°	1220.8	1218.3	1215.0	1224.8	1225.7
12.5°	1205.1	1204.2	1202.6	1213.3	1212.5
15°	1184.5	1184.5	1186.2	1199.3	1198.5
17.5°	1163.8	1163.8	1168.0	1182.8	1183.7
20°	1138.3	1140.0	1145.7	1163.8	1165.6
22.5°	1109.5	1111.1	1121.0	1144.1	1148.2
25°	1078.2	1084.0	1095.4	1119.4	1124.3
27.5°	1049.3	1050.1	1067.4	1093.8	1100.4
30°	1008.0	1019.6	1035.3	1065.8	1072.4
32.5°	967.7	979.3	1003.1	1036.1	1045.2
35°	931.4	940.5	968.5	1004.8	1013.0
37.5°	886.1	900.9	933.9	971.8	983.3
40°	844.1	857.3	892.7	935.6	950.4
42.5°	800.4	815.2	855.6	901.7	916.6
45°	755.8	772.3	814.3	865.4	882.0
47.5°	707.2	727.8	775.7	827.5	842.4
50°	660.2	681.7	732.7	787.2	802.0
52.5°	617.4	636.3	692.4	742.7	749.3
55°	569.5	589.4	648.7	687.4	685.8
57.5°	521.7	544.1	603.3	627.3	620.6
60°	477.3	497.9	557.2	562.1	548.2
62.5°	427.8	451.7	502.0	494.6	477.3
65°	381.6	404.7	448.4	427.8	412.1
67.5°	334.7	359.4	390.7	360.2	342.1
70°	288.5	318.2	329.7	296.8	281.9
72.5°	241.5	272.8	272.0	240.7	228.3
75°	197.0	225.1	217.6	187.9	178.9
77.5°	150.0	178.0	164.1	141.7	133.6
80°	106.3	132.7	114.6	97.3	91.5
82.5°	72.6	88.2	71.7	56.9	54.4
85°	37.9	45.3	33.0	25.6	23.9
87.5°	14.1	13.2	11.5	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)