

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: **22CZ-LD5-32SE-S-UNV-L850-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-32SE-S-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

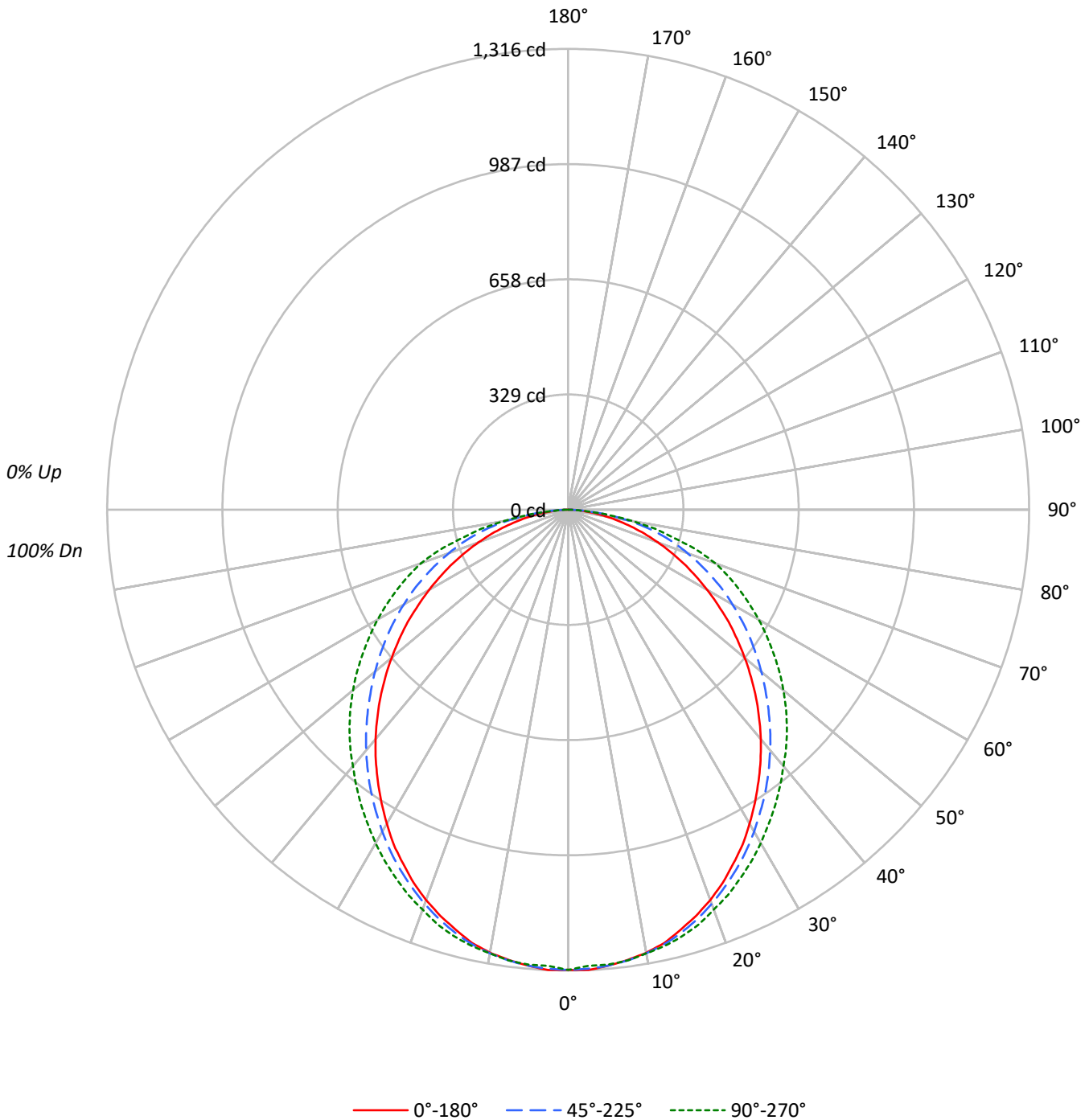
Lumens per Lamp: N/A
Luminaire Lumens: 3604.7 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 30.53
Input Voltage (V): NR
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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3536	3536	3536
5°	3516	3509	3506
10°	3480	3472	3484
15°	3413	3418	3465
20°	3336	3345	3418
25°	3235	3260	3371
30°	3127	3168	3320
35°	3006	3073	3270
40°	2884	2974	3222
45°	2748	2874	3200
50°	2599	2781	3167
55°	2449	2693	3131
60°	2272	2598	3113
65°	2091	2499	3097
70°	1880	2384	3090
75°	1624	2236	2746
80°	1317	1877	2215
85°	884	1095	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	3.4
10°-20°	352.5	9.8
20°-30°	523.6	14.5
30°-40°	616.3	17.1
40°-50°	628.3	17.4
50°-60°	566.7	15.7
60°-70°	446.4	12.4
70°-80°	275.3	7.6
80°-90°	71.5	2.0
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°	1000.2	27.7
0°-40°	1616.5	44.8
0°-60°	2811.5	78.0
0°-90°	3604.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3604.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1307	1309	1307	1306	1304	124
15°	1241	1247	1250	1257	1260	350
25°	1115	1122	1134	1153	1162	514
35°	947	958	982	1013	1030	592
45°	758	770	809	857	883	585
55°	559	578	632	689	715	499
65°	364	390	452	509	538	360
75°	185	216	272	303	313	198
85°	45	57	64	61	57	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.1	1314.1	1314.1	1314.1	1314.1
2.5°	1315.9	1315.9	1312.4	1308.9	1303.7
5°	1307.2	1308.9	1307.2	1305.5	1303.7
7.5°	1296.8	1298.5	1298.5	1298.5	1298.5
10°	1284.7	1286.4	1286.4	1286.4	1286.4
12.5°	1267.4	1269.1	1270.8	1272.6	1276.0
15°	1241.4	1246.6	1250.1	1257.0	1260.4
17.5°	1215.4	1220.6	1225.8	1234.5	1241.4
20°	1186.0	1189.5	1198.1	1208.5	1215.4
22.5°	1153.1	1158.3	1167.0	1180.8	1191.2
25°	1115.0	1121.9	1134.1	1153.1	1161.8
27.5°	1078.7	1083.8	1099.4	1120.2	1132.3
30°	1035.4	1042.3	1061.3	1087.3	1099.4
32.5°	992.1	1000.7	1021.5	1051.0	1064.8
35°	947.1	957.5	981.7	1012.9	1030.2
37.5°	902.1	912.4	940.1	974.8	993.8
40°	855.3	865.7	896.9	934.9	955.7
42.5°	806.8	818.9	853.6	896.9	921.1
45°	758.3	770.5	808.6	857.0	883.0
47.5°	708.1	722.0	763.5	817.2	843.2
50°	657.9	673.5	720.3	775.7	801.6
52.5°	607.7	625.0	675.2	732.4	760.1
55°	559.2	578.3	632.0	689.1	715.1
57.5°	507.3	529.8	586.9	642.3	671.8
60°	458.8	483.1	541.9	597.3	628.5
62.5°	410.3	436.3	498.6	554.0	583.5
65°	363.6	389.6	451.9	509.0	538.5
67.5°	316.8	346.3	406.9	464.0	493.4
70°	271.8	303.0	361.9	417.3	446.7
72.5°	228.5	259.7	318.6	370.5	387.8
75°	185.3	216.4	271.8	303.0	313.4
77.5°	145.4	174.9	223.3	242.4	256.2
80°	109.1	135.0	169.7	181.8	183.5
82.5°	74.4	97.0	117.7	119.5	117.7
85°	45.0	57.1	64.1	60.6	57.1
87.5°	20.8	22.5	20.8	13.9	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)