

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: **24CZ-LD5-30-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 (P25689)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-30-UNV-L850-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

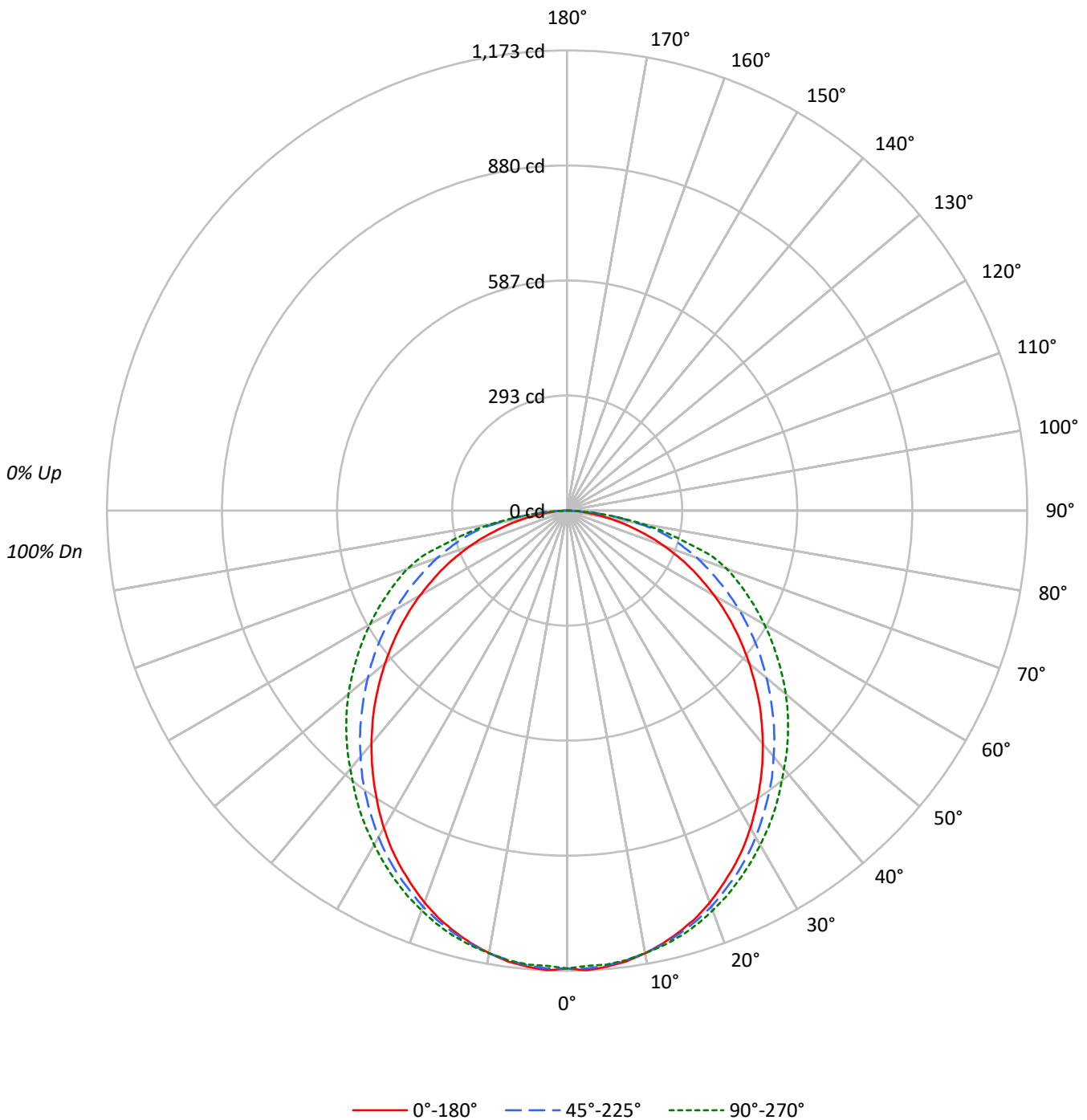
Lumens per Lamp: N/A  
Luminaire Lumens: 3321.1 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 21.62  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1570	1570	1570
5°	1573	1564	1562
10°	1558	1551	1551
15°	1537	1532	1542
20°	1508	1509	1525
25°	1472	1481	1506
30°	1431	1449	1486
35°	1382	1413	1468
40°	1335	1377	1449
45°	1286	1341	1443
50°	1231	1306	1437
55°	1177	1276	1432
60°	1119	1247	1438
65°	1052	1221	1455
70°	965	1207	1497
75°	844	1201	1376
80°	690	1057	1166
85°	474	684	666



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	3.3
10°-20°	314.1	9.5
20°-30°	469.6	14.1
30°-40°	556.8	16.8
40°-50°	572.6	17.2
50°-60°	523.8	15.8
60°-70°	422.4	12.7
70°-80°	274.3	8.3
80°-90°	77.2	2.3
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°	894.0	26.9
0°-40°	1450.8	43.7
0°-60°	2547.2	76.7
0°-90°	3321.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1167	1159	1164	1161	1161	111
15°	1111	1105	1115	1120	1122	313
25°	1003	1003	1022	1030	1038	462
35°	856	864	892	911	925	536
45°	692	705	742	776	796	534
55°	520	537	585	632	654	465
65°	348	368	427	482	506	344
75°	177	210	277	311	314	189
85°	40	66	71	70	68	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1167.1	1167.1	1167.1	1167.1	1167.1
2.5°	1172.7	1163.7	1168.2	1165.9	1161.4
5°	1167.1	1159.1	1163.7	1161.4	1161.4
7.5°	1159.1	1151.2	1155.8	1155.8	1155.8
10°	1145.6	1138.8	1145.6	1145.6	1145.6
12.5°	1129.8	1124.1	1132.0	1133.2	1135.4
15°	1110.6	1104.9	1115.1	1119.6	1121.9
17.5°	1089.1	1084.6	1095.9	1101.5	1104.9
20°	1063.1	1059.7	1074.4	1080.1	1084.6
22.5°	1033.7	1033.7	1048.4	1055.2	1063.1
25°	1003.2	1003.2	1022.4	1030.4	1038.3
27.5°	970.5	971.6	993.1	1004.4	1012.3
30°	934.3	938.8	961.4	975.0	984.0
32.5°	895.9	901.6	927.5	944.5	955.8
35°	856.4	864.3	892.5	910.6	925.3
37.5°	816.8	827.0	857.5	877.8	892.5
40°	776.2	787.5	819.1	842.8	859.8
42.5°	734.4	746.8	781.8	808.9	829.3
45°	692.5	705.0	742.3	776.2	796.5
47.5°	648.5	663.2	702.7	742.3	762.6
50°	605.6	621.4	663.2	706.1	727.6
52.5°	562.6	580.7	624.8	670.0	691.4
55°	519.7	536.6	585.2	631.5	654.1
57.5°	476.8	494.8	545.7	594.3	618.0
60°	433.8	453.0	506.1	557.0	580.7
62.5°	389.8	410.1	466.6	519.7	543.4
65°	348.0	368.3	427.1	482.4	506.1
67.5°	305.0	327.6	388.6	445.1	470.0
70°	262.1	287.0	351.4	407.8	432.7
72.5°	219.2	247.4	312.9	369.4	387.5
75°	177.4	210.1	276.8	310.7	314.1
77.5°	139.0	172.9	236.1	249.7	256.5
80°	101.7	139.0	177.4	194.3	193.2
82.5°	67.8	106.2	127.7	129.9	127.7
85°	39.5	65.5	71.2	70.0	67.8
87.5°	16.9	26.0	22.6	19.2	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)