

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-LD5-30SE-UNV-L840-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-LD5-30SE-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3118.1 lumens
Efficiency: N/A
Efficacy: 132.7 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

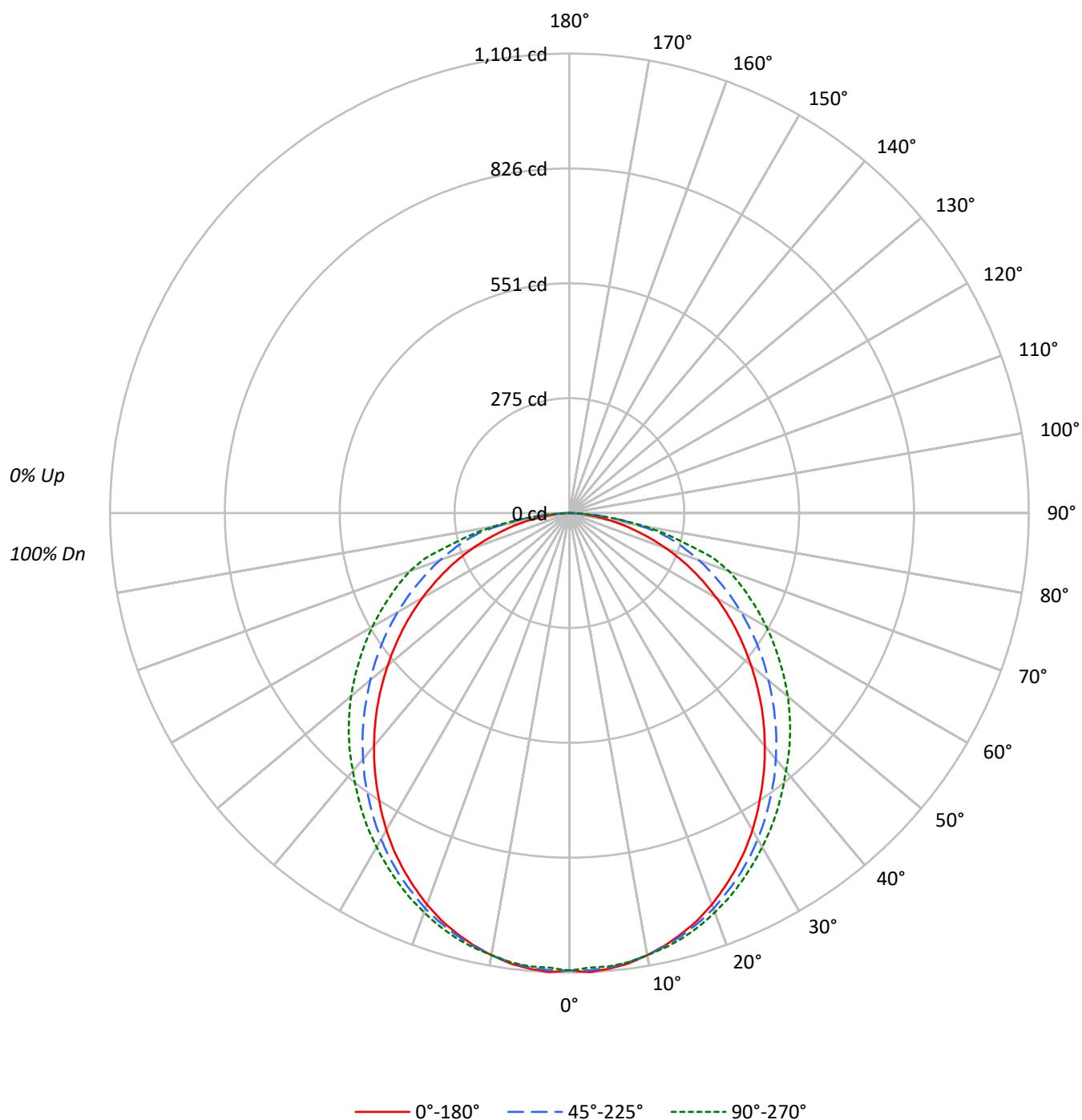
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68		
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26		
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1474	1474	1474
5°	1477	1469	1466
10°	1463	1456	1457
15°	1443	1438	1448
20°	1416	1417	1432
25°	1382	1391	1414
30°	1343	1361	1395
35°	1298	1327	1379
40°	1254	1293	1361
45°	1207	1259	1355
50°	1156	1226	1349
55°	1105	1198	1345
60°	1051	1171	1350
65°	987	1146	1366
70°	906	1133	1405
75°	792	1128	1292
80°	648	992	1095
85°	445	642	625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.3
10°-20°	294.9	9.5
20°-30°	440.9	14.1
30°-40°	522.8	16.8
40°-50°	537.6	17.2
50°-60°	491.8	15.8
60°-70°	396.6	12.7
70°-80°	257.5	8.3
80°-90°	72.5	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°	839.4	26.9
0°-40°	1362.2	43.7
0°-60°	2391.6	76.7
0°-90°	3118.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3118.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1096	1088	1093	1090	1090	104
15°	1043	1037	1047	1051	1053	294
25°	942	942	960	967	975	434
35°	804	812	838	855	869	503
45°	650	662	697	729	748	501
55°	488	504	550	593	614	436
65°	327	346	401	453	475	323
75°	166	197	260	292	295	178
85°	37	62	67	66	64	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.7	1095.7	1095.7	1095.7	1095.7
2.5°	1101.0	1092.6	1096.8	1094.7	1090.4
5°	1095.7	1088.3	1092.6	1090.4	1090.4
7.5°	1088.3	1080.9	1085.1	1085.1	1085.1
10°	1075.6	1069.2	1075.6	1075.6	1075.6
12.5°	1060.7	1055.4	1062.9	1063.9	1066.0
15°	1042.7	1037.4	1047.0	1051.2	1053.3
17.5°	1022.6	1018.3	1028.9	1034.2	1037.4
20°	998.2	995.0	1008.8	1014.1	1018.3
22.5°	970.6	970.6	984.4	990.7	998.2
25°	941.9	941.9	960.0	967.4	974.8
27.5°	911.2	912.2	932.4	943.0	950.4
30°	877.2	881.5	902.7	915.4	923.9
32.5°	841.2	846.5	870.9	886.8	897.4
35°	804.0	811.5	838.0	855.0	868.7
37.5°	766.9	776.5	805.1	824.2	838.0
40°	728.7	739.3	769.0	791.3	807.2
42.5°	689.5	701.1	734.0	759.5	778.6
45°	650.2	661.9	696.9	728.7	747.8
47.5°	608.9	622.7	659.8	696.9	716.0
50°	568.6	583.4	622.7	663.0	683.1
52.5°	528.2	545.2	586.6	629.0	649.2
55°	487.9	503.9	549.5	593.0	614.2
57.5°	447.6	464.6	512.3	557.9	580.2
60°	407.3	425.4	475.2	522.9	545.2
62.5°	366.0	385.0	438.1	487.9	510.2
65°	326.7	345.8	401.0	452.9	475.2
67.5°	286.4	307.6	364.9	417.9	441.3
70°	246.1	269.4	329.9	382.9	406.3
72.5°	205.8	232.3	293.8	346.9	363.8
75°	166.5	197.3	259.9	291.7	294.9
77.5°	130.5	162.3	221.7	234.4	240.8
80°	95.5	130.5	166.5	182.4	181.4
82.5°	63.6	99.7	119.9	122.0	119.9
85°	37.1	61.5	66.8	65.8	63.6
87.5°	15.9	24.4	21.2	18.0	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)