

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: P260678

Luminaire Tested: **24CZ-LD5-30SE-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
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-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

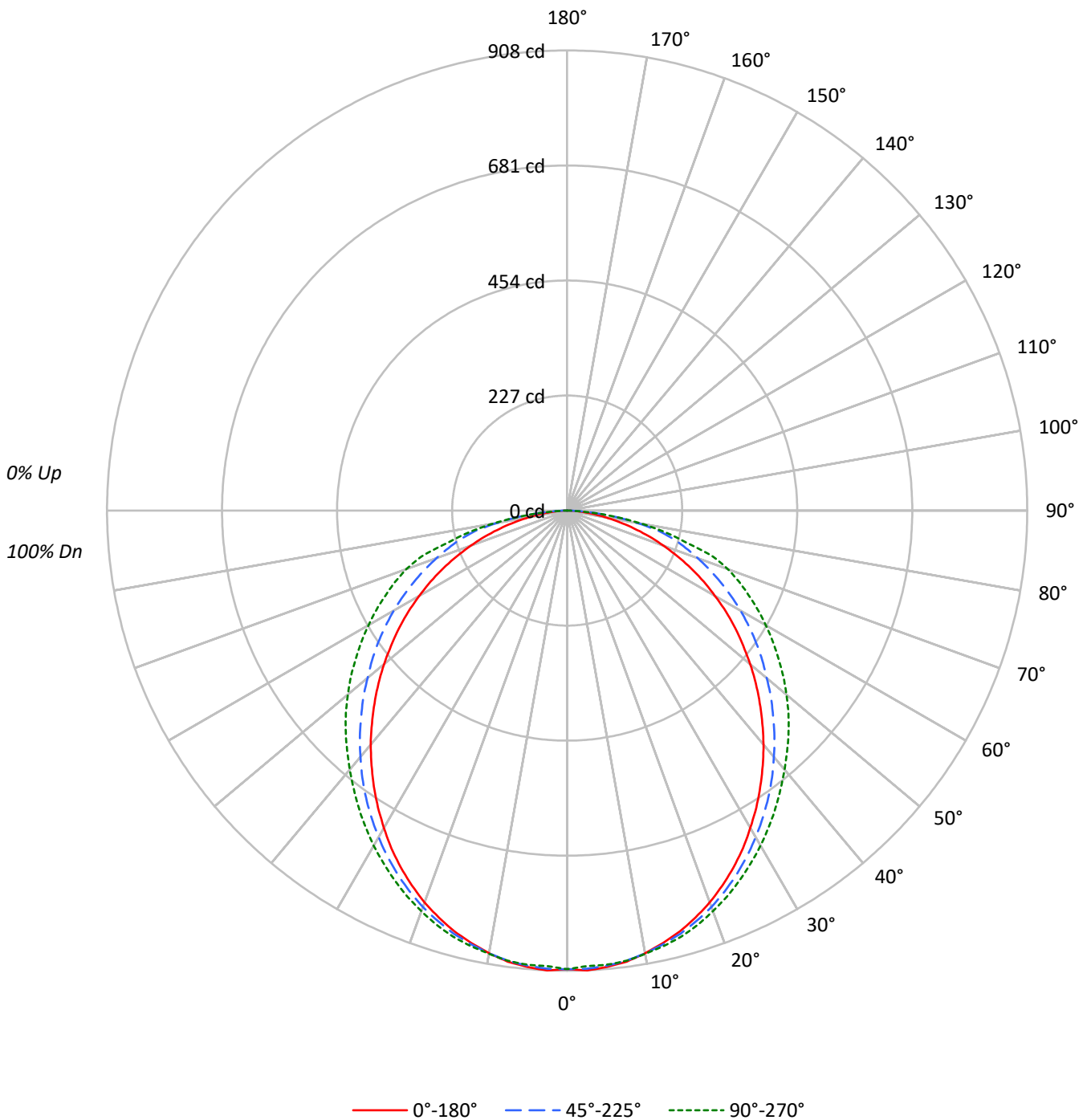
Input Watts (W): 22.175478
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1217	1217	1217
5°	1221	1217	1215
10°	1212	1212	1213
15°	1198	1204	1212
20°	1178	1192	1204
25°	1153	1175	1195
30°	1123	1156	1186
35°	1092	1137	1177
40°	1059	1115	1172
45°	1023	1093	1176
50°	987	1075	1182
55°	951	1069	1195
60°	907	1062	1218
65°	860	1062	1259
70°	795	1080	1327
75°	711	1129	1262
80°	595	1081	1156
85°	449	831	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	3.3
10°-20°	243.3	9.4
20°-30°	363.8	14.1
30°-40°	431.6	16.7
40°-50°	444.2	17.2
50°-60°	407.5	15.8
60°-70°	329.5	12.8
70°-80°	213.8	8.3
80°-90°	58.9	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°	692.6	26.9
0°-40°	1124.2	43.6
0°-60°	1975.8	76.6
0°-90°	2578.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	904	898	901	900	900	86
15°	860	856	864	868	870	242
25°	777	778	792	799	805	358
35°	665	670	692	707	717	416
45°	538	546	575	602	618	415
55°	405	418	456	492	509	362
65°	270	286	334	378	395	267
75°	137	162	217	243	243	145
85°	29	49	54	52	51	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.8	904.8	904.8	904.8	904.8
2.5°	908.3	901.2	904.8	903.9	899.5
5°	903.9	897.7	901.2	900.3	899.5
7.5°	897.7	891.5	895.9	895.1	895.9
10°	887.1	881.8	887.1	888.0	888.0
12.5°	873.9	869.5	876.5	878.3	880.0
15°	859.7	856.2	864.2	867.7	870.3
17.5°	842.1	839.4	849.2	853.6	857.1
20°	822.7	821.8	832.4	836.8	841.2
22.5°	800.6	800.6	813.0	818.3	824.4
25°	776.8	777.7	791.8	798.8	805.0
27.5°	751.2	752.1	768.8	777.7	784.7
30°	722.9	726.5	744.1	755.6	763.5
32.5°	694.7	699.1	718.5	731.8	740.6
35°	664.7	670.0	692.0	707.0	716.7
37.5°	633.8	640.0	663.8	680.6	692.0
40°	602.9	609.9	634.7	654.1	667.3
42.5°	570.2	578.2	605.5	628.5	642.6
45°	537.6	546.4	574.6	602.0	617.9
47.5°	504.9	515.5	545.5	575.5	592.3
50°	471.4	482.0	513.7	548.2	564.9
52.5°	437.8	450.2	485.5	520.8	537.6
55°	405.2	417.5	455.5	492.5	509.3
57.5°	371.6	384.0	425.5	464.3	481.1
60°	337.2	351.3	394.6	434.3	452.8
62.5°	303.6	318.7	364.6	406.9	424.6
65°	270.1	286.0	333.7	377.8	395.4
67.5°	235.7	254.2	303.6	348.7	367.2
70°	202.1	222.4	274.5	319.5	337.2
72.5°	169.5	191.5	245.4	291.3	301.9
75°	136.8	162.4	217.1	242.7	242.7
77.5°	105.9	134.2	185.4	195.1	200.4
80°	76.8	107.7	139.5	150.9	149.2
82.5°	51.2	82.1	99.7	99.7	97.1
85°	29.1	49.4	53.8	52.1	51.2
87.5°	12.4	18.5	16.8	13.2	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)