

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: **8ILED-LD5-32-W-TWB-UNV-L840-CD4-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 (P34175)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-32-W-TWB-UNV-L840-CD4-U  
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

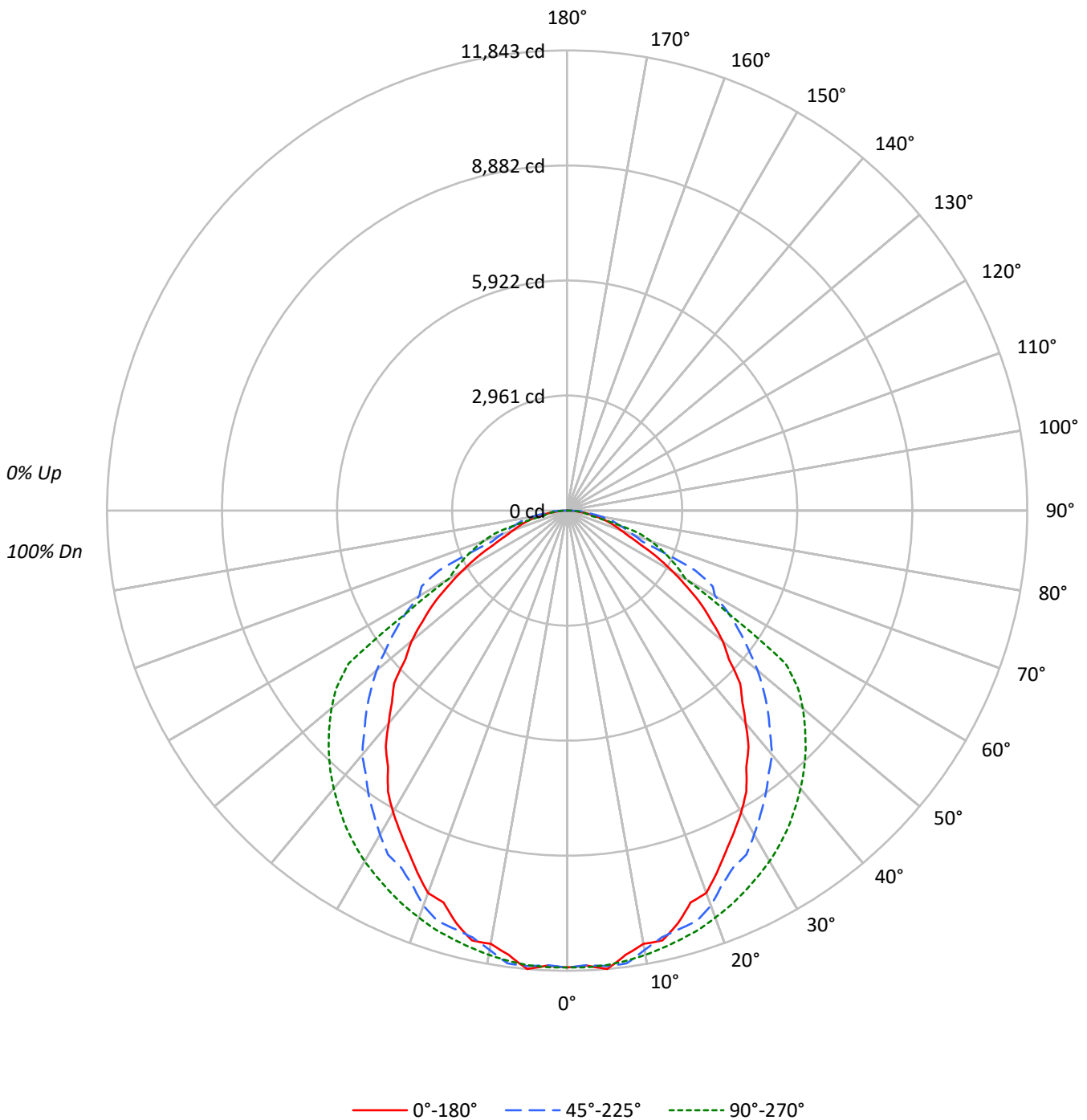
Lumens per Lamp: N/A  
Luminaire Lumens: 29652.0 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 253.2  
Input Voltage (V):  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

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

	0°	45°	90°
0°	17259	17259	17259
5°	17431	17208	17135
10°	16841	16856	16978
15°	16662	16561	16845
20°	16286	16385	16750
25°	15574	15765	16665
30°	15078	15546	16614
35°	14279	15061	16534
40°	13554	14662	16405
45°	12911	13971	16243
50°	11762	13257	16000
55°	10589	12344	15192
60°	9003	11219	8686
65°	7100	10671	8214
70°	6073	6293	7552
75°	5796	5727	4762
80°	5299	5061	2805
85°	4222	3802	2382



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1113.8	3.8
10°-20°	3162.5	10.7
20°-30°	4720.4	15.9
30°-40°	5618.7	18.9
40°-50°	5681.0	19.2
50°-60°	4786.5	16.1
60°-70°	2765.8	9.3
70°-80°	1365.2	4.6
80°-90°	437.9	1.5
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°	8996.7	30.3
0°-40°	14615.5	49.3
0°-60°	25083.0	84.6
0°-90°	29652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11758	11758	11758	11758	11758	
5°	11843	11870	11767	11709	11740	###
15°	11002	11172	11149	11449	11409	3089
25°	9672	9851	10124	10617	10814	4466
35°	8039	8365	8912	9668	9932	5057
45°	6298	6490	7309	8186	8679	4779
55°	4212	4543	5416	6459	6862	3739
65°	2099	2560	3639	2735	2918	2161
75°	1070	1316	1334	1468	1182	1124
85°	286	354	448	533	318	329
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11758.1	11758.1	11758.1	11758.1	11758.1
2.5°	11722.3	11735.7	11708.9	11776.0	11762.6
5°	11843.2	11870.0	11767.1	11708.9	11740.2
7.5°	11534.3	11592.5	11753.6	11677.6	11686.5
10°	11324.0	11332.9	11480.6	11717.8	11610.4
12.5°	11332.9	11315.0	11247.9	11655.2	11516.4
15°	11001.7	11171.8	11149.4	11449.3	11409.0
17.5°	10576.5	10742.1	11077.8	11243.4	11301.6
20°	10473.5	10415.4	10818.2	10979.3	11149.4
22.5°	10075.2	10307.9	10419.8	10777.9	10997.2
25°	9672.4	9851.4	10124.4	10616.8	10813.7
27.5°	9309.8	9502.3	9985.7	10464.6	10621.3
30°	8960.7	9139.7	9627.6	10272.1	10419.8
32.5°	8580.3	8804.0	9265.1	10039.4	10187.1
35°	8038.7	8365.4	8911.5	9667.9	9932.0
37.5°	7667.2	7882.0	8522.1	9274.0	9641.0
40°	7148.0	7492.6	8204.3	8969.7	9345.6
42.5°	6669.1	7009.2	7725.4	8589.2	9027.8
45°	6297.6	6490.0	7309.1	8186.4	8678.7
47.5°	5635.1	6123.0	6857.0	7756.7	8307.2
50°	5227.8	5563.5	6400.5	7344.9	7917.8
52.5°	4699.7	5075.6	5885.8	6888.4	7483.7
55°	4211.8	4543.0	5415.8	6458.7	6861.5
57.5°	3656.8	4082.0	4927.9	5970.8	4896.6
60°	3133.1	3558.3	4390.8	4032.8	3518.0
62.5°	2631.8	3007.8	4225.2	3034.6	3227.1
65°	2099.2	2560.2	3638.9	2734.8	2918.3
67.5°	1723.2	2045.5	2099.2	2448.3	2609.4
70°	1463.6	1620.3	1812.7	2170.8	2287.2
72.5°	1271.1	1338.3	1575.5	1929.1	1947.0
75°	1069.7	1315.9	1333.8	1468.1	1181.6
77.5°	854.9	1060.8	1154.8	854.9	604.2
80°	671.4	720.6	890.7	751.9	537.1
82.5°	465.5	532.6	617.7	649.0	443.1
85°	286.5	353.6	447.6	532.6	317.8
87.5°	120.8	192.5	308.8	411.8	174.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)