

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: **4ILED-LD5-9-W-TWB-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 (P34175)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-9-W-TWB-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

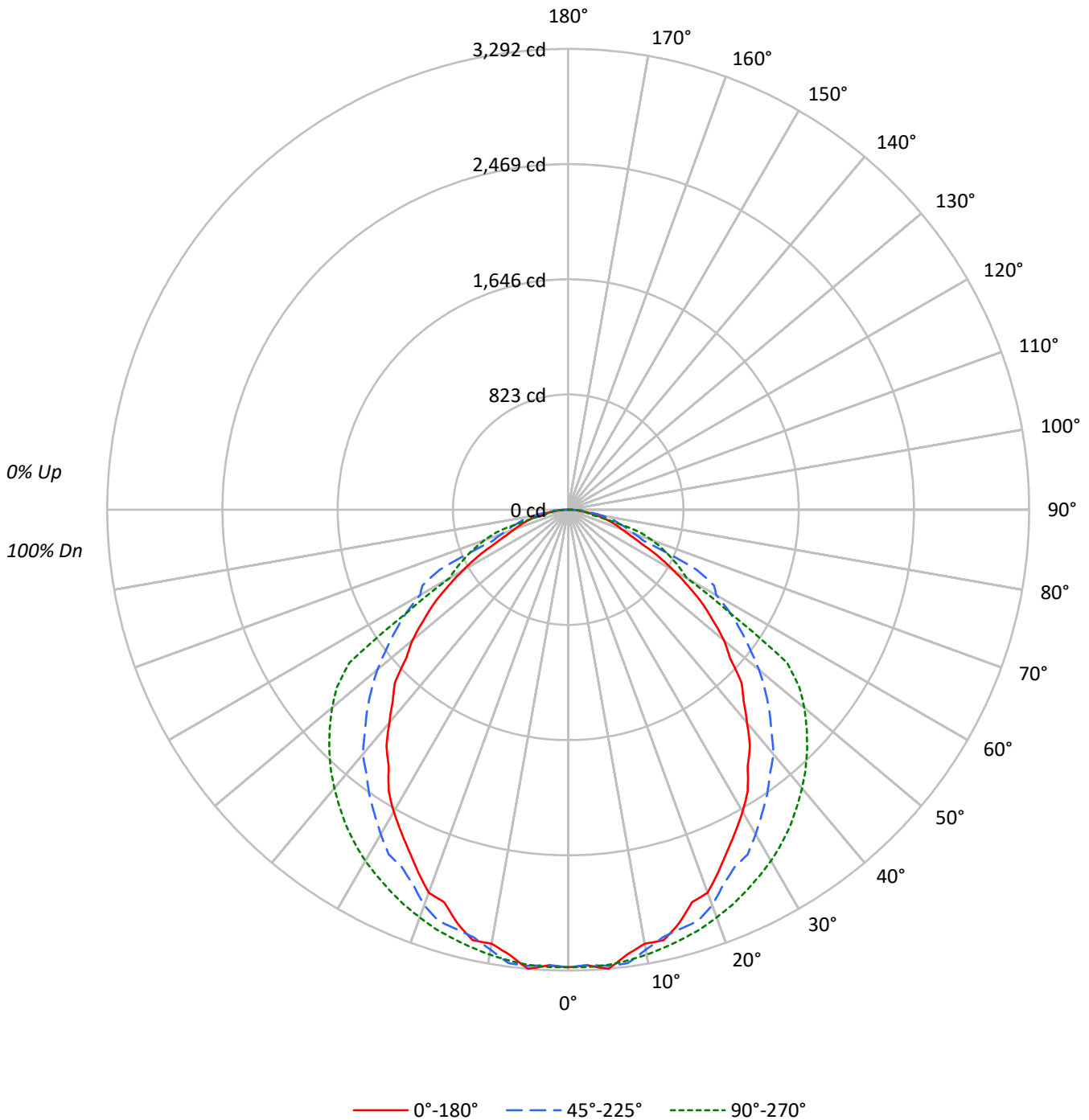
Lumens per Lamp: N/A  
Luminaire Lumens: 8243.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 65.7  
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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46					46			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32					32			
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27					27			

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

	0°	45°	90°
0°	9596	9596	9596
5°	9681	9560	9527
10°	9343	9357	9440
15°	9233	9186	9365
20°	9014	9082	9313
25°	8609	8730	9266
30°	8324	8601	9237
35°	7871	8325	9192
40°	7458	8096	9121
45°	7091	7705	9031
50°	6445	7301	8896
55°	5786	6786	8446
60°	4902	6156	4830
65°	3848	5839	4567
70°	3268	3431	4199
75°	3085	3106	2648
80°	2763	2722	1559
85°	2085	2011	1324



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.6	3.8
10°-20°	879.1	10.7
20°-30°	1312.2	15.9
30°-40°	1562.0	18.9
40°-50°	1579.3	19.2
50°-60°	1330.6	16.1
60°-70°	768.9	9.3
70°-80°	379.5	4.6
80°-90°	121.7	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°	2501.0	30.3
0°-40°	4063.0	49.3
0°-60°	6972.9	84.6
0°-90°	8243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3269	3269	3269	3269	3269	
5°	3292	3300	3271	3255	3264	308
15°	3058	3106	3099	3183	3172	859
25°	2689	2739	2814	2951	3006	1242
35°	2235	2326	2477	2688	2761	1406
45°	1751	1804	2032	2276	2413	1328
55°	1171	1263	1506	1796	1907	1039
65°	584	712	1012	760	811	601
75°	297	366	371	408	328	313
85°	80	98	124	148	88	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3268.7	3268.7	3268.7	3268.7	3268.7
2.5°	3258.7	3262.4	3255.0	3273.6	3269.9
5°	3292.3	3299.8	3271.1	3255.0	3263.7
7.5°	3206.4	3222.6	3267.4	3246.3	3248.7
10°	3148.0	3150.5	3191.5	3257.5	3227.6
12.5°	3150.5	3145.5	3126.8	3240.0	3201.5
15°	3058.4	3105.7	3099.4	3182.8	3171.6
17.5°	2940.2	2986.2	3079.5	3125.6	3141.7
20°	2911.6	2895.4	3007.4	3052.2	3099.4
22.5°	2800.8	2865.5	2896.6	2996.2	3057.1
25°	2688.8	2738.6	2814.5	2951.4	3006.1
27.5°	2588.0	2641.6	2775.9	2909.1	2952.6
30°	2491.0	2540.8	2676.4	2855.6	2896.6
32.5°	2385.2	2447.4	2575.6	2790.9	2831.9
35°	2234.7	2325.5	2477.3	2687.6	2761.0
37.5°	2131.4	2191.1	2369.1	2578.1	2680.1
40°	1987.1	2082.9	2280.7	2493.5	2598.0
42.5°	1853.9	1948.5	2147.6	2387.7	2509.7
45°	1750.7	1804.2	2031.9	2275.7	2412.6
47.5°	1566.5	1702.1	1906.2	2156.3	2309.3
50°	1453.3	1546.6	1779.3	2041.8	2201.1
52.5°	1306.5	1411.0	1636.2	1914.9	2080.4
55°	1170.8	1262.9	1505.5	1795.5	1907.4
57.5°	1016.6	1134.8	1369.9	1659.8	1361.2
60°	871.0	989.2	1220.6	1121.1	978.0
62.5°	731.6	836.1	1174.6	843.6	897.1
65°	583.6	711.7	1011.6	760.2	811.3
67.5°	479.0	568.6	583.6	680.6	725.4
70°	406.9	450.4	503.9	603.5	635.8
72.5°	353.4	372.0	438.0	536.3	541.3
75°	297.4	365.8	370.8	408.1	328.5
77.5°	237.7	294.9	321.0	237.7	168.0
80°	186.6	200.3	247.6	209.0	149.3
82.5°	129.4	148.1	171.7	180.4	123.2
85°	79.6	98.3	124.4	148.1	88.3
87.5°	33.6	53.5	85.9	114.5	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)