

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-LD5-22-W-TWB-UNV-L850-CD2-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-LD5-22-W-TWB-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

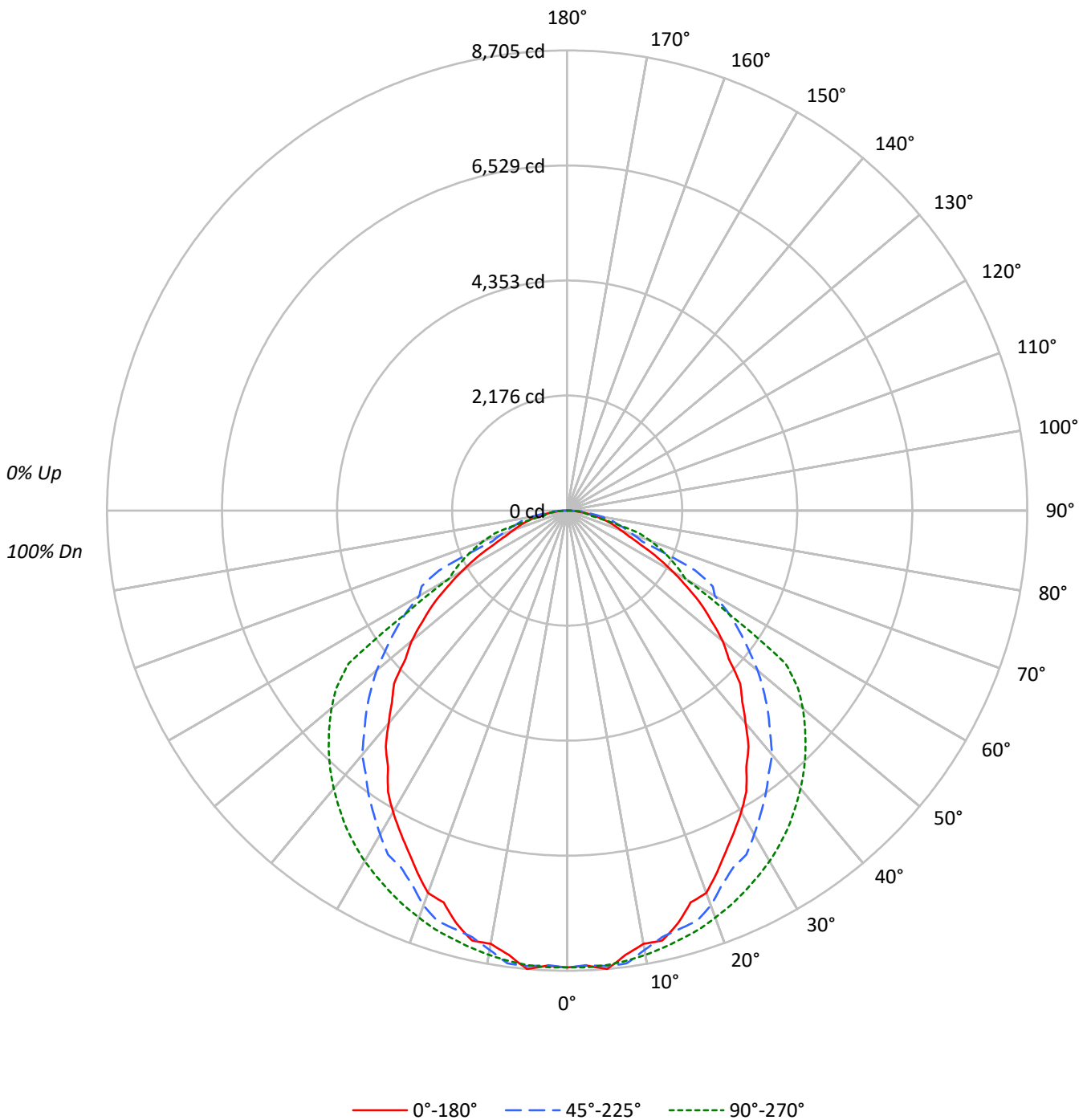
Lumens per Lamp: N/A
Luminaire Lumens: 21794.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
Input Voltage (V):
Input Current (A_{in}): 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				
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					46				
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°	12685	12685	12685
5°	12811	12648	12594
10°	12378	12389	12479
15°	12247	12172	12381
20°	11970	12043	12311
25°	11447	11587	12249
30°	11083	11426	12211
35°	10495	11070	12152
40°	9962	10777	12058
45°	9490	10268	11939
50°	8645	9744	11760
55°	7783	9073	11166
60°	6617	8246	6384
65°	5219	7843	6037
70°	4463	4625	5551
75°	4260	4209	3500
80°	3895	3720	2062
85°	3102	2795	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.7	3.8
10°-20°	2324.4	10.7
20°-30°	3469.5	15.9
30°-40°	4129.7	18.9
40°-50°	4175.5	19.2
50°-60°	3518.1	16.1
60°-70°	2032.9	9.3
70°-80°	1003.4	4.6
80°-90°	321.8	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°	6612.5	30.3
0°-40°	10742.3	49.3
0°-60°	18435.8	84.6
0°-90°	21794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8642	8642	8642	8642	8642	
5°	8705	8724	8649	8606	8629	814
15°	8086	8211	8195	8415	8386	2270
25°	7109	7241	7441	7803	7948	3283
35°	5908	6148	6550	7106	7300	3717
45°	4629	4770	5372	6017	6379	3512
55°	3096	3339	3981	4747	5043	2748
65°	1543	1882	2675	2010	2145	1588
75°	786	967	980	1079	868	826
85°	210	260	329	392	234	242
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8642.1	8642.1	8642.1	8642.1	8642.1
2.5°	8615.8	8625.7	8605.9	8655.3	8645.4
5°	8704.6	8724.4	8648.7	8605.9	8629.0
7.5°	8477.6	8520.4	8638.8	8582.9	8589.5
10°	8323.0	8329.6	8438.2	8612.5	8533.6
12.5°	8329.6	8316.5	8267.1	8566.5	8464.5
15°	8086.2	8211.2	8194.7	8415.1	8385.5
17.5°	7773.6	7895.4	8142.1	8263.8	8306.6
20°	7698.0	7655.2	7951.3	8069.7	8194.7
22.5°	7405.2	7576.3	7658.5	7921.7	8082.9
25°	7109.1	7240.7	7441.4	7803.3	7948.0
27.5°	6842.6	6984.1	7339.4	7691.4	7806.5
30°	6586.1	6717.6	7076.2	7549.9	7658.5
32.5°	6306.4	6470.9	6809.8	7378.9	7487.4
35°	5908.4	6148.5	6549.9	7105.8	7299.9
37.5°	5635.3	5793.2	6263.7	6816.3	7086.1
40°	5253.7	5507.0	6030.1	6592.6	6869.0
42.5°	4901.7	5151.7	5678.1	6313.0	6635.4
45°	4628.7	4770.1	5372.1	6016.9	6378.8
47.5°	4141.8	4500.4	5039.9	5701.1	6105.7
50°	3842.4	4089.1	4704.3	5398.5	5819.5
52.5°	3454.2	3730.6	4326.0	5062.9	5500.4
55°	3095.6	3339.1	3980.6	4747.1	5043.2
57.5°	2687.7	3000.2	3622.0	4388.5	3599.0
60°	2302.8	2615.3	3227.2	2964.1	2585.7
62.5°	1934.4	2210.7	3105.5	2230.4	2371.9
65°	1542.9	1881.7	2674.6	2010.0	2144.9
67.5°	1266.5	1503.4	1542.9	1799.5	1917.9
70°	1075.7	1190.9	1332.3	1595.5	1681.1
72.5°	934.3	983.6	1158.0	1417.9	1431.0
75°	786.2	967.2	980.3	1079.0	868.5
77.5°	628.3	779.7	848.8	628.3	444.1
80°	493.5	529.6	654.7	552.7	394.8
82.5°	342.1	391.5	454.0	477.0	325.7
85°	210.5	259.9	329.0	391.5	233.6
87.5°	88.8	141.5	227.0	302.7	128.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)