

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-LD5-18-W-CL-UNV-L835-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 (P34177)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-18-W-CL-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

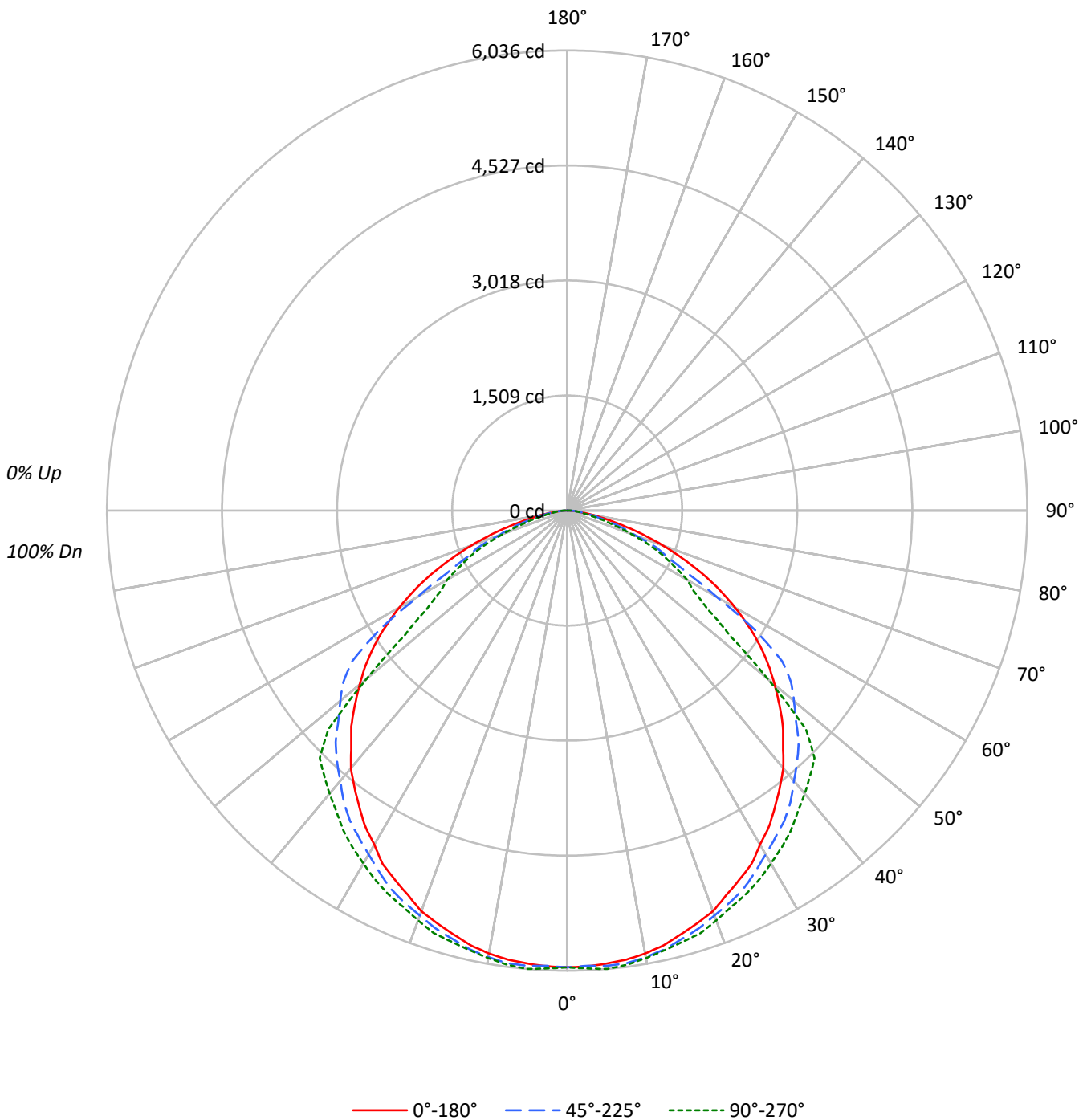
Lumens per Lamp: N/A
Luminaire Lumens: 16227.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64					62				
4	84	73	64	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	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43					41				
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38					36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34					32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31					29				
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8795	8795	8795
5°	8780	8766	8809
10°	8773	8733	8716
15°	8717	8639	8645
20°	8695	8562	8592
25°	8603	8525	8554
30°	8515	8411	8523
35°	8438	8395	8521
40°	8364	8271	8510
45°	8208	8208	8589
50°	7993	8045	6947
55°	7759	7846	4970
60°	7312	5798	4488
65°	6610	4257	3901
70°	5547	3346	2932
75°	4111	2483	1957
80°	2677	1747	1223
85°	1403	1057	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.0	3.5
10°-20°	1646.2	10.1
20°-30°	2520.4	15.5
30°-40°	3102.3	19.1
40°-50°	3288.1	20.3
50°-60°	2640.8	16.3
60°-70°	1641.2	10.1
70°-80°	675.4	4.2
80°-90°	141.5	0.9
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°	4737.6	29.2
0°-40°	7839.9	48.3
0°-60°	13768.8	84.9
0°-90°	16227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5992	5992	5992	5992	5992	
5°	5965	5980	5994	6026	6036	567
15°	5755	5836	5816	5855	5855	1627
25°	5343	5399	5475	5536	5550	2465
35°	4750	4867	4967	5092	5119	2974
45°	4004	4092	4294	4499	4589	3080
55°	3086	3223	3442	2457	2245	2747
65°	1954	2093	1452	1378	1386	1926
75°	759	698	578	517	486	832
85°	95	117	124	124	122	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5992.0	5992.0	5992.0	5992.0	5992.0
2.5°	5982.3	5989.6	5977.4	6004.2	6011.5
5°	5965.2	5979.8	5994.5	6026.2	6035.9
7.5°	5940.8	5972.5	5989.6	6009.1	6009.1
10°	5899.3	5948.1	5948.1	5955.4	5960.3
12.5°	5840.7	5906.6	5894.4	5899.3	5906.6
15°	5755.4	5835.9	5816.4	5855.4	5855.4
17.5°	5674.8	5743.2	5745.6	5794.4	5811.5
20°	5591.9	5648.0	5652.9	5723.6	5718.8
22.5°	5457.7	5543.1	5567.5	5606.5	5626.1
25°	5343.0	5399.2	5474.8	5535.8	5550.4
27.5°	5233.3	5279.6	5340.6	5445.5	5457.7
30°	5060.0	5157.6	5208.9	5347.9	5345.5
32.5°	4923.4	5011.2	5084.4	5218.6	5238.1
35°	4750.2	4867.3	4967.3	5091.7	5118.6
37.5°	4581.8	4689.2	4813.6	4935.6	4972.2
40°	4411.1	4508.6	4628.2	4774.6	4847.8
42.5°	4191.5	4311.0	4467.2	4635.5	4718.5
45°	4003.6	4091.5	4294.0	4498.9	4589.2
47.5°	3776.7	3891.4	4069.5	4330.5	4247.6
50°	3552.3	3684.0	3884.1	3923.1	3437.6
52.5°	3330.3	3462.0	3703.5	3103.4	2688.6
55°	3086.3	3222.9	3442.5	2456.8	2244.6
57.5°	2820.3	2949.7	2930.1	2039.6	1966.4
60°	2544.7	2671.5	2269.0	1785.9	1817.6
62.5°	2259.2	2395.8	1781.0	1632.2	1583.4
65°	1954.2	2093.3	1451.6	1378.5	1385.8
67.5°	1637.1	1754.2	1273.5	1176.0	1151.6
70°	1337.0	1371.1	963.7	936.9	888.1
72.5°	1036.9	993.0	766.1	707.5	656.3
75°	758.8	697.8	578.2	517.2	485.5
77.5°	527.0	483.1	417.2	439.2	324.5
80°	339.1	314.7	307.4	244.0	234.2
82.5°	200.1	197.6	190.3	175.7	170.8
85°	95.2	117.1	124.4	124.4	122.0
87.5°	34.2	58.6	78.1	83.0	87.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)