

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-TWB-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 (P34175)
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-TWB-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

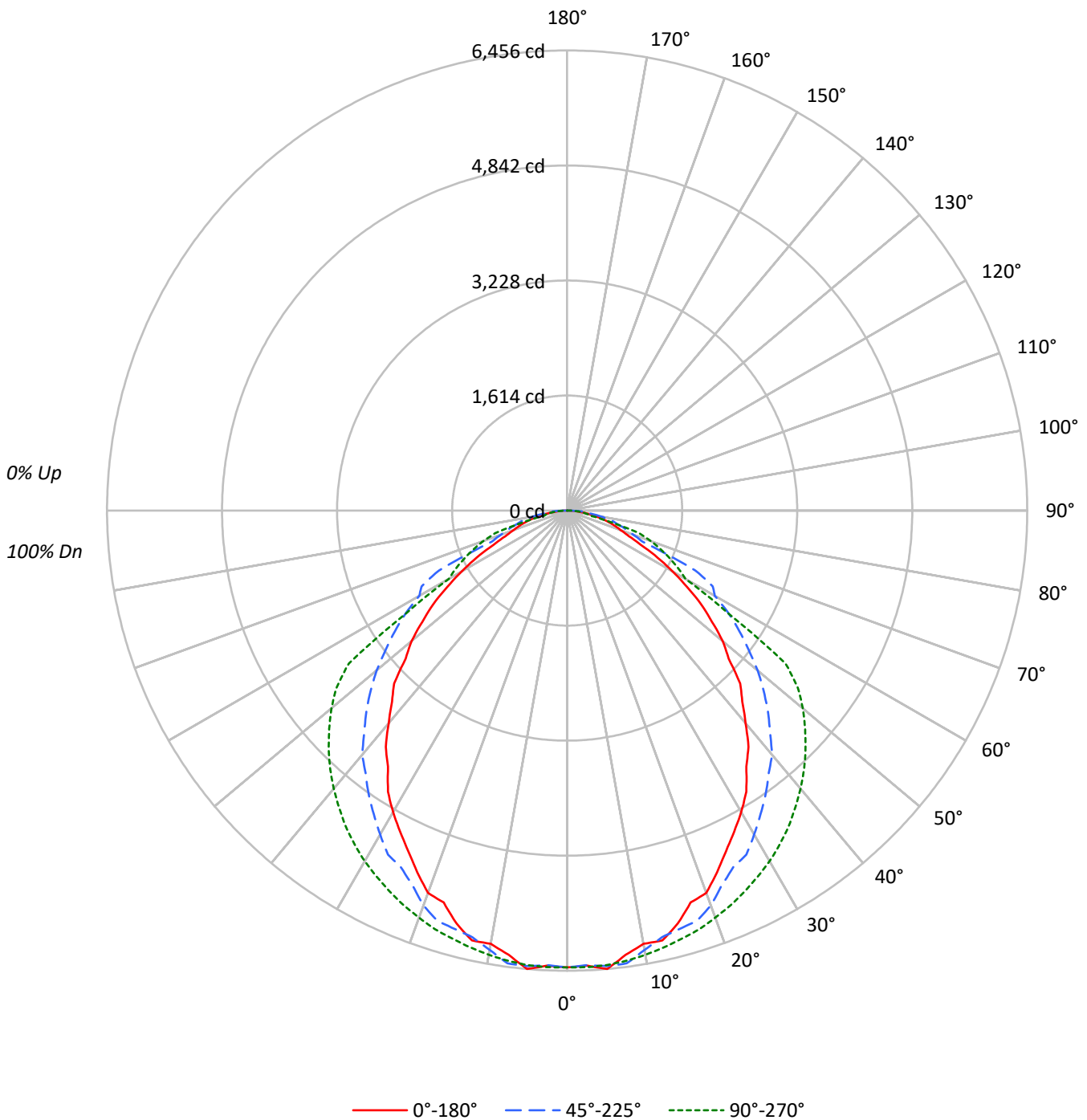
Lumens per Lamp: N/A
Luminaire Lumens: 16163.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: 8ILED-LD5-18-W-TWB-UNV-L835-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-TWB-UNV-L835-CD2-U

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					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°	9407	9407	9407
5°	9501	9380	9340
10°	9180	9188	9255
15°	9082	9027	9182
20°	8877	8932	9130
25°	8489	8593	9084
30°	8219	8474	9056
35°	7783	8210	9012
40°	7388	7992	8942
45°	7038	7615	8854
50°	6412	7226	8721
55°	5772	6728	8281
60°	4907	6115	4735
65°	3870	5816	4477
70°	3310	3430	4116
75°	3159	3121	2596
80°	2889	2759	1529
85°	2300	2073	1298



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-TWB-UNV-L835-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.1	3.8
10°-20°	1723.8	10.7
20°-30°	2573.0	15.9
30°-40°	3062.7	18.9
40°-50°	3096.7	19.2
50°-60°	2609.1	16.1
60°-70°	1507.6	9.3
70°-80°	744.2	4.6
80°-90°	238.7	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°	4904.0	30.3
0°-40°	7966.7	49.3
0°-60°	13672.5	84.6
0°-90°	16163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6409	6409	6409	6409	6409	
5°	6456	6470	6414	6382	6400	603
15°	5997	6090	6077	6241	6219	1684
25°	5272	5370	5519	5787	5894	2435
35°	4382	4560	4858	5270	5414	2756
45°	3433	3538	3984	4462	4731	2605
55°	2296	2476	2952	3521	3740	2038
65°	1144	1396	1984	1491	1591	1178
75°	583	717	727	800	644	613
85°	156	193	244	290	173	179
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-TWB-UNV-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6409.2	6409.2	6409.2	6409.2	6409.2
2.5°	6389.7	6397.0	6382.4	6419.0	6411.7
5°	6455.6	6470.2	6414.1	6382.4	6399.5
7.5°	6287.2	6319.0	6406.8	6365.3	6370.2
10°	6172.6	6177.5	6258.0	6387.3	6328.7
12.5°	6177.5	6167.7	6131.1	6353.1	6277.5
15°	5996.9	6089.6	6077.4	6240.9	6218.9
17.5°	5765.1	5855.4	6038.4	6128.7	6160.4
20°	5709.0	5677.3	5896.9	5984.7	6077.4
22.5°	5491.9	5618.8	5679.7	5874.9	5994.5
25°	5272.3	5369.9	5518.7	5787.1	5894.4
27.5°	5074.7	5179.6	5443.1	5704.1	5789.5
30°	4884.4	4982.0	5247.9	5599.2	5679.7
32.5°	4677.0	4799.0	5050.3	5472.4	5552.9
35°	4381.8	4559.9	4857.5	5269.9	5413.8
37.5°	4179.3	4296.4	4645.3	5055.2	5255.2
40°	3896.3	4084.1	4472.1	4889.3	5094.2
42.5°	3635.2	3820.7	4211.0	4681.9	4921.0
45°	3432.7	3537.6	3984.1	4462.3	4730.7
47.5°	3071.6	3337.6	3737.7	4228.1	4528.2
50°	2849.6	3032.6	3488.8	4003.6	4315.9
52.5°	2561.7	2766.7	3208.3	3754.8	4079.3
55°	2295.8	2476.4	2952.1	3520.6	3740.1
57.5°	1993.3	2225.1	2686.2	3254.6	2669.1
60°	1707.8	1939.6	2393.4	2198.2	1917.6
62.5°	1434.6	1639.5	2303.1	1654.2	1759.1
65°	1144.2	1395.5	1983.5	1490.7	1590.7
67.5°	939.3	1115.0	1144.2	1334.5	1422.4
70°	797.8	883.2	988.1	1183.3	1246.7
72.5°	692.9	729.5	858.8	1051.5	1061.3
75°	583.1	717.3	727.0	800.2	644.1
77.5°	466.0	578.2	629.5	466.0	329.4
80°	366.0	392.8	485.5	409.9	292.8
82.5°	253.7	290.3	336.7	353.8	241.5
85°	156.1	192.7	244.0	290.3	173.2
87.5°	65.9	104.9	168.3	224.5	95.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)