

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-FL-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 (P34181)
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-FL-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

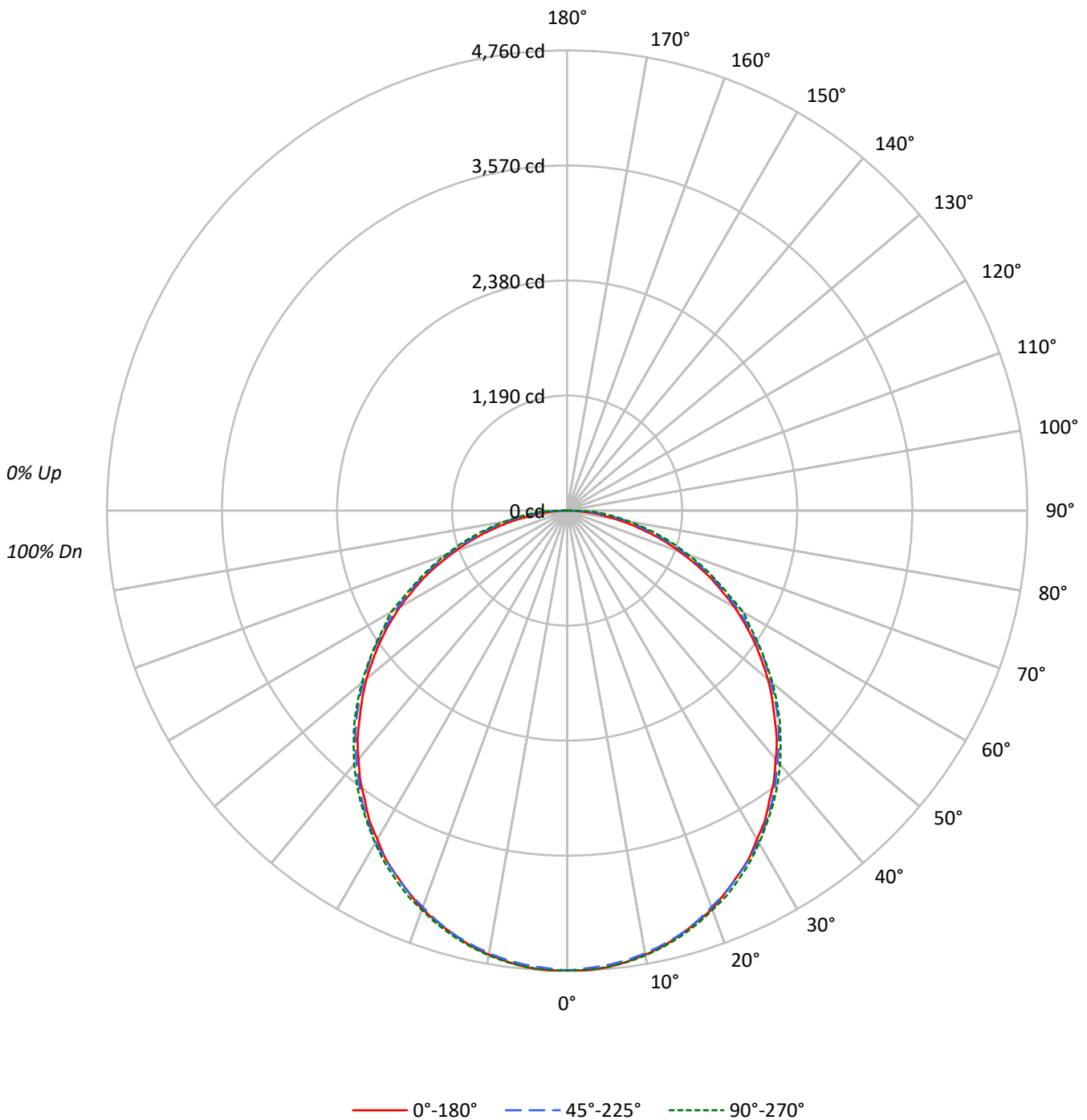
Lumens per Lamp: N/A
Luminaire Lumens: 13470.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
Input Voltage (V):
Input Current (Ain): 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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6983	6983	6983
5°	6980	6903	6918
10°	6937	6827	6832
15°	6876	6736	6728
20°	6821	6610	6605
25°	6713	6500	6482
30°	6605	6389	6337
35°	6483	6234	6181
40°	6365	6056	6017
45°	6222	5899	5826
50°	6098	5695	5605
55°	5937	5488	5364
60°	5741	5211	5198
65°	5496	4893	4772
70°	5122	4480	4390
75°	4666	4022	3963
80°	4082	3604	3427
85°	3416	2715	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	3.3
10°-20°	1281.7	9.5
20°-30°	1928.6	14.3
30°-40°	2307.3	17.1
40°-50°	2377.7	17.7
50°-60°	2143.7	15.9
60°-70°	1646.5	12.2
70°-80°	991.3	7.4
80°-90°	343.7	2.6
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°	3659.9	27.2
0°-40°	5967.2	44.3
0°-60°	10488.6	77.9
0°-90°	13470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4757	4757	4757	4757	4757	
5°	4743	4738	4721	4738	4740	450
15°	4540	4545	4535	4555	4557	1281
25°	4169	4172	4174	4198	4206	1922
35°	3650	3686	3689	3711	3713	2288
45°	3035	3062	3086	3110	3113	2346
55°	2362	2381	2408	2422	2422	2108
65°	1625	1630	1669	1688	1696	1601
75°	861	886	937	971	983	915
85°	232	268	320	364	381	261
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4757.2	4757.2	4757.2	4757.2	4757.2
2.5°	4759.7	4757.2	4737.7	4752.3	4757.2
5°	4742.6	4737.7	4720.6	4737.7	4740.1
7.5°	4708.4	4706.0	4691.3	4708.4	4713.3
10°	4664.5	4664.5	4649.9	4666.9	4671.8
12.5°	4610.8	4608.4	4596.2	4615.7	4620.6
15°	4540.1	4545.0	4535.2	4554.7	4557.2
17.5°	4462.0	4464.5	4457.1	4474.2	4481.5
20°	4386.4	4374.2	4364.4	4393.7	4396.2
22.5°	4276.6	4281.5	4279.1	4305.9	4310.8
25°	4169.3	4171.7	4174.1	4198.5	4205.9
27.5°	4064.4	4061.9	4069.2	4088.8	4096.1
30°	3925.3	3944.8	3957.0	3971.7	3974.1
32.5°	3805.8	3813.1	3827.7	3837.5	3839.9
35°	3649.6	3686.2	3688.7	3710.6	3713.1
37.5°	3515.5	3527.7	3539.9	3566.7	3571.6
40°	3356.9	3374.0	3388.6	3413.0	3427.6
42.5°	3210.5	3230.0	3244.7	3266.6	3269.1
45°	3034.9	3061.7	3086.1	3110.5	3112.9
47.5°	2873.8	2900.7	2920.2	2939.7	2942.2
50°	2710.4	2732.3	2749.4	2773.8	2773.8
52.5°	2529.9	2556.7	2583.5	2593.3	2593.3
55°	2361.5	2381.0	2407.9	2422.5	2422.5
57.5°	2178.6	2188.3	2217.6	2244.4	2244.4
60°	1998.0	2010.2	2039.5	2059.0	2105.4
62.5°	1805.3	1824.8	1844.3	1907.8	1880.9
65°	1624.8	1629.7	1668.7	1688.2	1695.5
67.5°	1424.7	1441.8	1480.8	1502.8	1517.4
70°	1234.4	1256.4	1290.5	1317.4	1329.6
72.5°	1053.9	1063.7	1107.6	1144.2	1161.2
75°	861.2	885.6	936.8	971.0	983.2
77.5°	678.2	717.2	766.0	885.6	817.3
80°	517.2	546.5	634.3	639.2	656.3
82.5°	361.1	395.2	453.8	492.8	512.3
85°	231.8	268.4	319.6	363.5	380.6
87.5°	107.3	146.4	212.2	261.0	275.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)