

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-CLWG-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 (P34178)
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-CLWG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

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

Summary

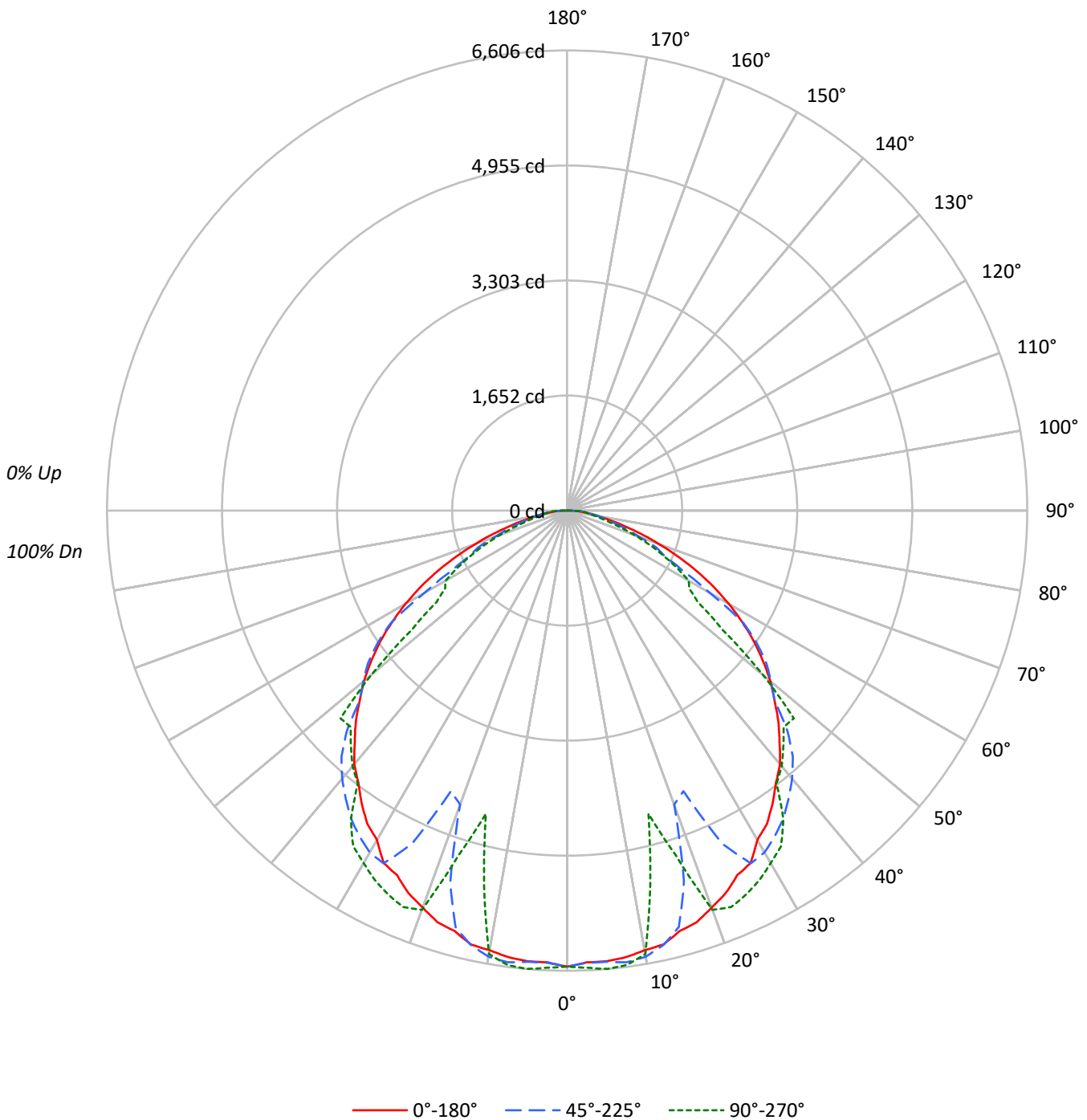
Lumens per Lamp: N/A
Luminaire Lumens: 16953.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74					72				
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63					61				
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55					52				
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48					46				
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42					40				
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37					35				
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33					31				
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30					28				
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9609	9609	9609
5°	9560	9507	9641
10°	9532	9545	9451
15°	9463	9197	6653
20°	9431	6801	9164
25°	9302	8220	9372
30°	9186	9150	9318
35°	9128	9136	9012
40°	9015	8982	8411
45°	8797	8552	8222
50°	8564	7912	7431
55°	8230	7583	5060
60°	7704	6067	4978
65°	6929	4515	4288
70°	5808	3850	3404
75°	4551	3086	2506
80°	3464	2631	1912
85°	3134	2241	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.6	3.7
10°-20°	1647.5	9.7
20°-30°	2626.8	15.5
30°-40°	3152.9	18.6
40°-50°	3353.1	19.8
50°-60°	2743.2	16.2
60°-70°	1739.3	10.3
70°-80°	803.5	4.7
80°-90°	265.0	1.6
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°	4895.9	28.9
0°-40°	8048.8	47.5
0°-60°	14145.2	83.4
0°-90°	16953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6547	6547	6547	6547	6547	
5°	6496	6498	6501	6552	6606	617
15°	6248	6345	6192	4878	4506	1771
25°	5777	5793	5279	6027	6081	2676
35°	5139	3852	5405	5508	5414	3211
45°	4291	4310	4474	4364	4393	3305
55°	3273	3446	3327	2579	2286	2915
65°	2049	2084	1540	1551	1524	2020
75°	840	797	719	665	622	920
85°	213	232	264	264	256	230
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6546.8	6546.8	6546.8	6546.8	6546.8
2.5°	6490.3	6501.0	6498.3	6546.8	6568.3
5°	6495.6	6498.3	6501.0	6552.2	6606.0
7.5°	6466.0	6522.6	6541.4	6522.6	6579.1
10°	6409.5	6460.6	6501.0	6444.5	6463.3
12.5°	6379.9	6455.3	6388.0	6110.7	5507.7
15°	6248.0	6344.9	6191.5	4877.8	4506.3
17.5°	6194.1	6258.8	5580.4	4484.8	5187.4
20°	6064.9	6153.8	4490.1	5766.1	6099.9
22.5°	5946.5	6011.1	4358.2	6064.9	6159.1
25°	5776.9	5793.0	5278.9	6027.2	6081.1
27.5°	5704.2	5461.9	5709.6	5949.2	5978.8
30°	5459.2	4961.2	5666.5	5841.5	5844.2
32.5°	5335.4	4320.6	5545.4	5685.4	5715.0
35°	5138.9	3852.2	5405.4	5507.7	5413.5
37.5°	4923.6	3784.9	5219.7	5165.8	4937.0
40°	4754.0	4129.4	5025.8	4692.0	4791.6
42.5°	4514.4	4339.4	4794.3	4576.3	4595.1
45°	4290.9	4309.8	4474.0	4363.6	4393.2
47.5°	4037.9	4161.7	4035.2	4180.6	4414.8
50°	3806.4	3938.3	3819.9	4059.4	3677.2
52.5°	3542.6	3706.8	3607.2	3265.3	2821.1
55°	3273.4	3445.7	3327.2	2578.9	2285.5
57.5°	2980.0	3122.6	2998.8	2113.2	2075.5
60°	2681.2	2794.2	2374.3	1924.7	2016.3
62.5°	2366.2	2436.2	1873.6	1774.0	1768.6
65°	2048.6	2083.6	1539.8	1550.6	1523.6
67.5°	1717.5	1733.6	1386.3	1313.7	1273.3
70°	1399.8	1389.0	1109.1	1068.7	1031.0
72.5°	1109.1	1057.9	901.8	848.0	802.2
75°	839.9	796.8	718.7	664.9	621.8
77.5°	624.5	600.3	562.6	568.0	476.5
80°	438.8	441.5	463.0	393.0	366.1
82.5°	304.2	320.3	331.1	325.7	317.6
85°	212.7	231.5	263.8	263.8	255.7
87.5°	107.7	158.8	212.7	226.1	220.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)