

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-N-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-22-N-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

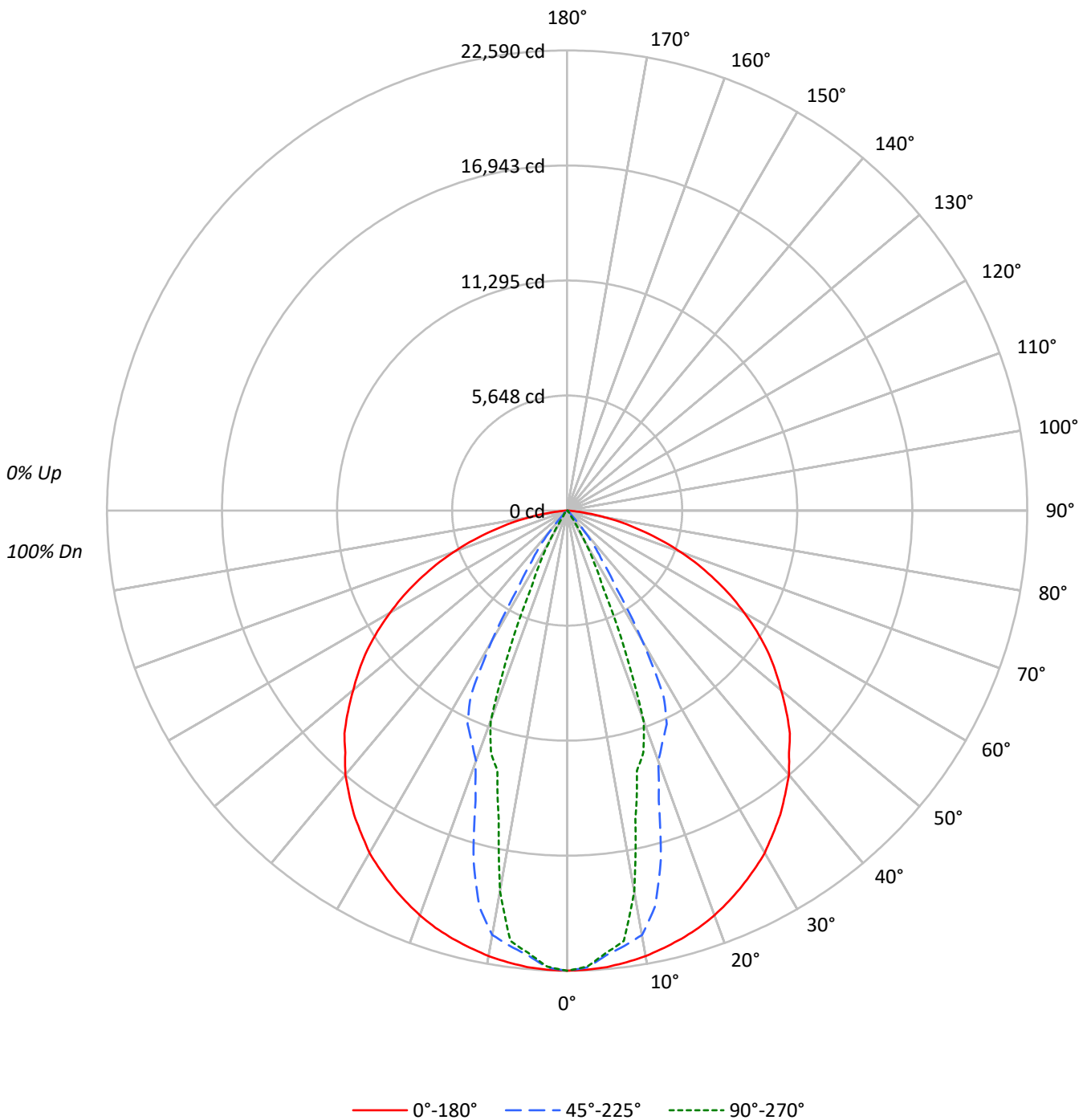
Lumens per Lamp: N/A
Luminaire Lumens: 22721.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
Input Voltage (V):
Input Current (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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70		77	72	69		75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50		59	53	49		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33158	33158	33158
5°	33107	32048	31818
10°	33025	31058	27727
15°	32943	26374	19524
20°	32877	19813	16507
25°	32728	18017	6410
30°	32654	11933	2732
35°	32392	5083	604
40°	32112	2243	431
45°	31702	537	200
50°	30848	331	108
55°	30181	211	110
60°	28845	191	114
65°	27065	198	120
70°	24498	210	129
75°	20340	244	143
80°	14730	283	130
85°	4976	302	160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2075.1	9.1
10°-20°	4952.8	21.8
20°-30°	5415.3	23.8
30°-40°	3919.1	17.2
40°-50°	2924.8	12.9
50°-60°	1707.8	7.5
60°-70°	1061.7	4.7
70°-80°	553.7	2.4
80°-90°	110.6	0.5
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°	12443.2	54.8
0°-40°	16362.3	72.0
0°-60°	20994.9	92.4
0°-90°	22721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22590	22590	22590	22590	22590	
5°	22494	22412	21915	21847	21801	###
15°	21751	20987	17756	13885	13224	6142
25°	20326	17255	11571	6032	4159	9376
35°	18236	11123	3007	650	363	11401
45°	15463	7269	281	192	107	11873
55°	12004	1408	92	107	50	10688
65°	8002	117	68	64	43	7912
75°	3754	71	57	46	36	4023
85°	338	46	36	32	21	640
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22590.2	22590.2	22590.2	22590.2	22590.2
2.5°	22554.7	22583.1	22448.0	22448.0	22408.9
5°	22494.2	22412.5	21914.8	21847.3	21801.1
7.5°	22362.7	22042.8	21555.8	21466.9	21314.1
10°	22206.3	21644.6	21154.1	19888.6	18960.8
12.5°	21985.9	21314.1	19924.2	16788.9	15502.1
15°	21751.3	20987.0	17755.8	13884.7	13223.5
17.5°	21474.0	20553.4	14936.9	12733.0	12448.6
20°	21143.4	19849.5	13081.3	11940.3	10987.6
22.5°	20756.0	18758.2	12242.4	9924.8	7354.7
25°	20325.8	17254.6	11570.6	6032.3	4159.0
27.5°	19874.4	15477.2	10241.1	3664.9	2840.2
30°	19405.2	13650.1	7390.2	2626.9	1713.4
32.5°	18804.4	12157.1	4482.5	1478.8	764.3
35°	18235.7	11122.7	3007.3	650.5	362.6
37.5°	17578.1	10408.2	2196.8	344.8	255.9
40°	16934.7	9711.5	1254.8	259.5	245.3
42.5°	16124.2	8844.1	529.7	245.3	174.2
45°	15463.0	7269.4	280.8	192.0	106.6
47.5°	14588.5	4976.6	188.4	149.3	67.5
50°	13710.5	3074.8	160.0	117.3	53.3
52.5°	12875.2	2036.9	117.3	110.2	49.8
55°	12004.3	1407.7	92.4	106.6	49.8
57.5°	11037.4	693.2	78.2	103.1	46.2
60°	10038.5	270.2	74.6	99.5	46.2
62.5°	9050.3	149.3	71.1	81.8	42.7
65°	8001.7	117.3	67.5	64.0	42.7
67.5°	6963.7	96.0	64.0	60.4	42.7
70°	5904.4	85.3	60.4	53.3	39.1
72.5°	4823.7	78.2	56.9	53.3	35.5
75°	3753.8	71.1	56.9	46.2	35.5
77.5°	2808.2	67.5	53.3	46.2	28.4
80°	1866.2	60.4	49.8	39.1	24.9
82.5°	1030.9	56.9	42.7	35.5	24.9
85°	337.7	46.2	35.5	32.0	21.3
87.5°	53.3	32.0	28.4	28.4	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)