

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-L840-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-L840-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

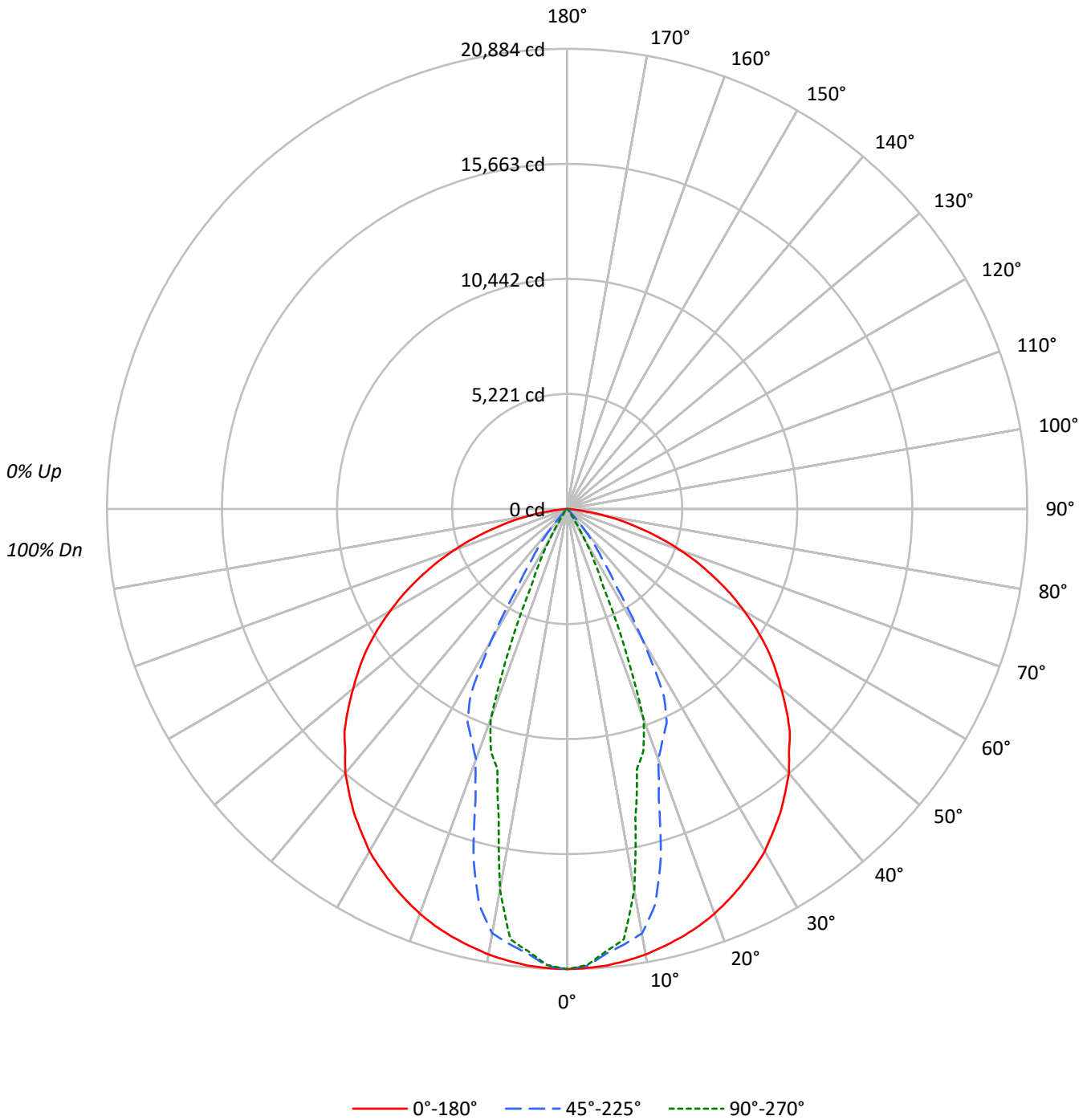
Lumens per Lamp: N/A
Luminaire Lumens: 21005.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8ILED-LD5-22-N-UNV-L840-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-N-UNV-L840-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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30654	30654	30654
5°	30607	29628	29415
10°	30530	28713	25633
15°	30455	24382	18049
20°	30394	18317	15261
25°	30256	16656	5926
30°	30188	11032	2526
35°	29946	4699	558
40°	29686	2073	398
45°	29308	496	185
50°	28519	306	100
55°	27901	195	102
60°	26666	176	105
65°	25021	183	111
70°	22648	194	119
75°	18803	226	133
80°	13618	261	120
85°	4601	279	148



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-N-UNV-L840-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1918.4	9.1
10°-20°	4578.7	21.8
20°-30°	5006.3	23.8
30°-40°	3623.1	17.2
40°-50°	2703.9	12.9
50°-60°	1578.8	7.5
60°-70°	981.5	4.7
70°-80°	511.9	2.4
80°-90°	102.3	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°	11503.5	54.8
0°-40°	15126.6	72.0
0°-60°	19409.3	92.4
0°-90°	21005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20884	20884	20884	20884	20884	
5°	20795	20720	20260	20197	20154	###
15°	20108	19402	16415	12836	12225	5678
25°	18791	15951	10697	5577	3845	8668
35°	16858	10283	2780	601	335	10540
45°	14295	6720	260	178	99	10977
55°	11098	1301	85	99	46	9880
65°	7397	108	62	59	39	7314
75°	3470	66	53	43	33	3719
85°	312	43	33	30	20	591
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-N-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20884.1	20884.1	20884.1	20884.1	20884.1
2.5°	20851.2	20877.5	20752.6	20752.6	20716.5
5°	20795.4	20719.8	20259.7	20197.3	20154.5
7.5°	20673.8	20378.0	19927.8	19845.6	19704.3
10°	20529.2	20009.9	19556.4	18386.5	17528.8
12.5°	20325.4	19704.3	18419.4	15520.9	14331.3
15°	20108.5	19402.0	16414.8	12836.1	12224.8
17.5°	19852.2	19001.1	13808.8	11771.3	11508.4
20°	19546.6	18350.4	12093.4	11038.5	10157.8
22.5°	19188.4	17341.5	11317.8	9175.2	6799.2
25°	18790.7	15951.4	10696.7	5576.8	3844.9
27.5°	18373.4	14308.3	9467.7	3388.1	2625.7
30°	17939.6	12619.2	6832.1	2428.5	1584.0
32.5°	17384.2	11239.0	4144.0	1367.1	706.5
35°	16858.4	10282.7	2780.2	601.4	335.2
37.5°	16250.5	9622.1	2030.9	318.8	236.6
40°	15655.7	8978.0	1160.0	239.9	226.8
42.5°	14906.4	8176.2	489.7	226.8	161.0
45°	14295.2	6720.4	259.6	177.5	98.6
47.5°	13486.7	4600.7	174.2	138.0	62.4
50°	12675.0	2842.6	147.9	108.4	49.3
52.5°	11902.8	1883.0	108.4	101.9	46.0
55°	11097.6	1301.4	85.4	98.6	46.0
57.5°	10203.8	640.8	72.3	95.3	42.7
60°	9280.4	249.8	69.0	92.0	42.7
62.5°	8366.8	138.0	65.7	75.6	39.4
65°	7397.3	108.4	62.4	59.2	39.4
67.5°	6437.8	88.7	59.2	55.9	39.4
70°	5458.5	78.9	55.9	49.3	36.1
72.5°	4459.4	72.3	52.6	49.3	32.9
75°	3470.3	65.7	52.6	42.7	32.9
77.5°	2596.1	62.4	49.3	42.7	26.3
80°	1725.3	55.9	46.0	36.1	23.0
82.5°	953.0	52.6	39.4	32.9	23.0
85°	312.2	42.7	32.9	29.6	19.7
87.5°	49.3	29.6	26.3	26.3	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)