

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-LD5-32-W-CLWG-UNV-L840-CD4-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-LD5-32-W-CLWG-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

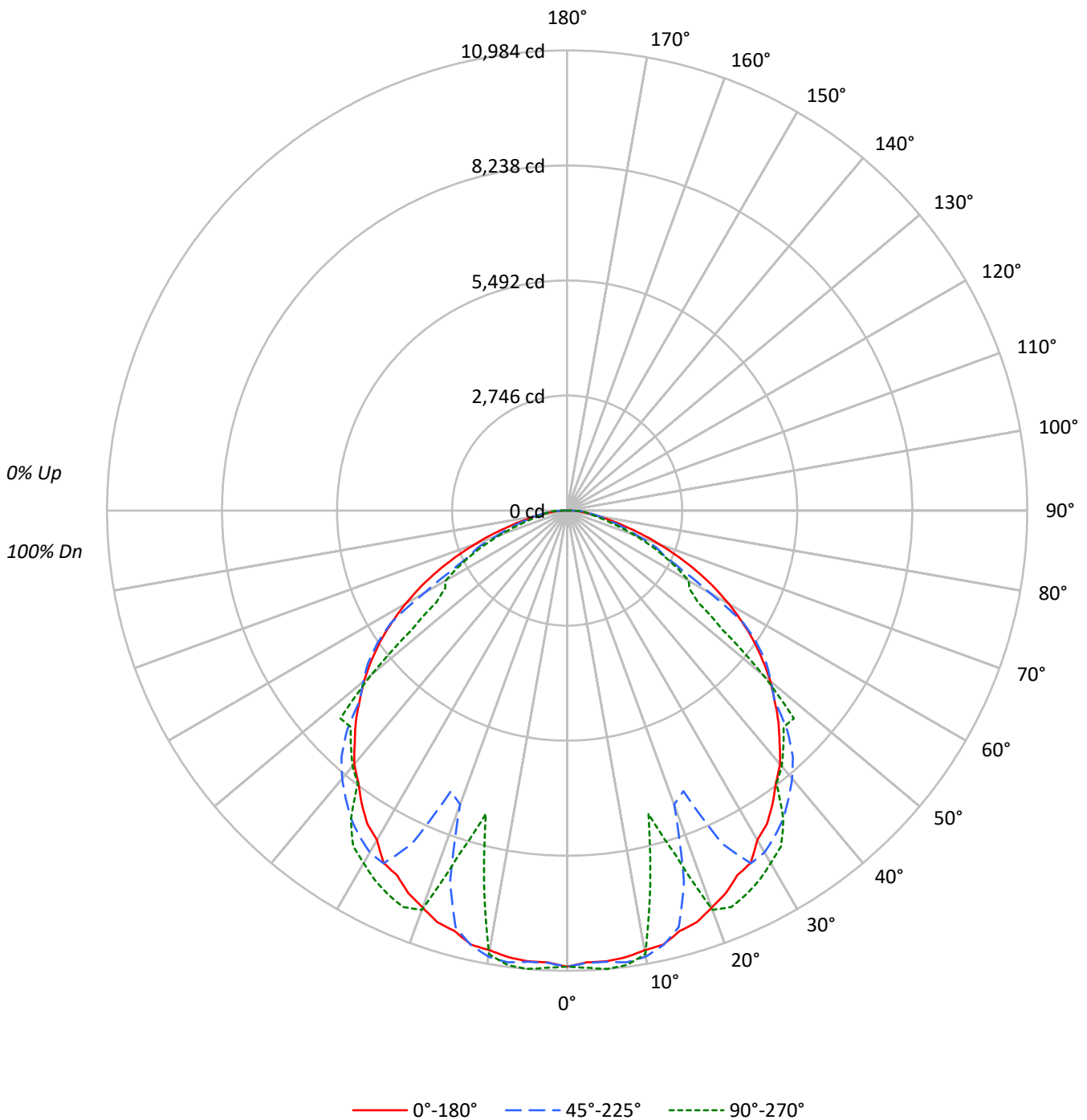
Lumens per Lamp: N/A
Luminaire Lumens: 28189.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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	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°	15978	15978	15978
5°	15897	15808	16031
10°	15850	15871	15716
15°	15734	15292	11063
20°	15681	11308	15238
25°	15467	13668	15583
30°	15275	15214	15494
35°	15178	15191	14985
40°	14989	14935	13986
45°	14628	14220	13672
50°	14241	13156	12356
55°	13684	12609	8414
60°	12810	10087	8278
65°	11522	7508	7131
70°	9657	6402	5660
75°	7567	5131	4167
80°	5759	4375	3179
85°	5211	3726	3187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.6	3.7
10°-20°	2739.4	9.7
20°-30°	4367.9	15.5
30°-40°	5242.5	18.6
40°-50°	5575.5	19.8
50°-60°	4561.4	16.2
60°-70°	2892.1	10.3
70°-80°	1336.1	4.7
80°-90°	440.7	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°	8140.8	28.9
0°-40°	13383.3	47.5
0°-60°	23520.2	83.4
0°-90°	28189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10886	10886	10886	10886	10886	
5°	10801	10805	10810	10895	10984	###
15°	10389	10550	10295	8111	7493	2944
25°	9606	9632	8778	10022	10112	4449
35°	8545	6405	8988	9158	9001	5339
45°	7135	7166	7439	7256	7305	5496
55°	5443	5729	5532	4288	3800	4847
65°	3406	3464	2560	2578	2534	3359
75°	1396	1325	1195	1106	1034	1530
85°	354	385	439	439	425	382
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10885.8	10885.8	10885.8	10885.8	10885.8
2.5°	10791.8	10809.7	10805.3	10885.8	10921.6
5°	10800.8	10805.3	10809.7	10894.8	10984.3
7.5°	10751.5	10845.5	10876.9	10845.5	10939.5
10°	10657.5	10742.6	10809.7	10715.7	10747.1
12.5°	10608.3	10733.6	10621.7	10160.7	9158.1
15°	10389.0	10550.1	10295.0	8110.7	7493.0
17.5°	10299.5	10406.9	9278.9	7457.1	8625.4
20°	10084.6	10232.3	7466.1	9587.8	10142.8
22.5°	9887.7	9995.1	7246.8	10084.6	10241.3
25°	9605.7	9632.5	8777.6	10021.9	10111.5
27.5°	9484.8	9082.0	9493.8	9892.1	9941.4
30°	9077.5	8249.4	9422.1	9713.1	9717.6
32.5°	8871.6	7184.1	9220.7	9453.5	9502.7
35°	8544.8	6405.3	8988.0	9158.1	9001.4
37.5°	8186.8	6293.4	8679.1	8589.6	8209.1
40°	7904.8	6866.3	8356.8	7801.8	7967.4
42.5°	7506.4	7215.4	7971.9	7609.3	7640.7
45°	7134.9	7166.2	7439.2	7255.7	7305.0
47.5°	6714.1	6920.0	6709.6	6951.4	7340.8
50°	6329.2	6548.5	6351.6	6749.9	6114.3
52.5°	5890.5	6163.6	5997.9	5429.5	4690.9
55°	5442.9	5729.4	5532.4	4288.1	3800.2
57.5°	4955.0	5192.3	4986.4	3513.7	3451.1
60°	4458.2	4646.2	3947.9	3200.4	3352.6
62.5°	3934.5	4050.9	3115.4	2949.7	2940.8
65°	3406.3	3464.5	2560.3	2578.2	2533.5
67.5°	2855.7	2882.6	2305.2	2184.3	2117.2
70°	2327.6	2309.7	1844.1	1777.0	1714.3
72.5°	1844.1	1759.1	1499.5	1410.0	1333.9
75°	1396.5	1324.9	1195.1	1105.6	1034.0
77.5°	1038.5	998.2	935.5	944.5	792.3
80°	729.6	734.1	769.9	653.5	608.7
82.5°	505.8	532.7	550.6	541.6	528.2
85°	353.6	384.9	438.7	438.7	425.2
87.5°	179.0	264.1	353.6	376.0	367.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)