

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-N-TWBWG-UNV-L850-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 (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-32-N-TWBWG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD
DISTRIBUION

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

Summary

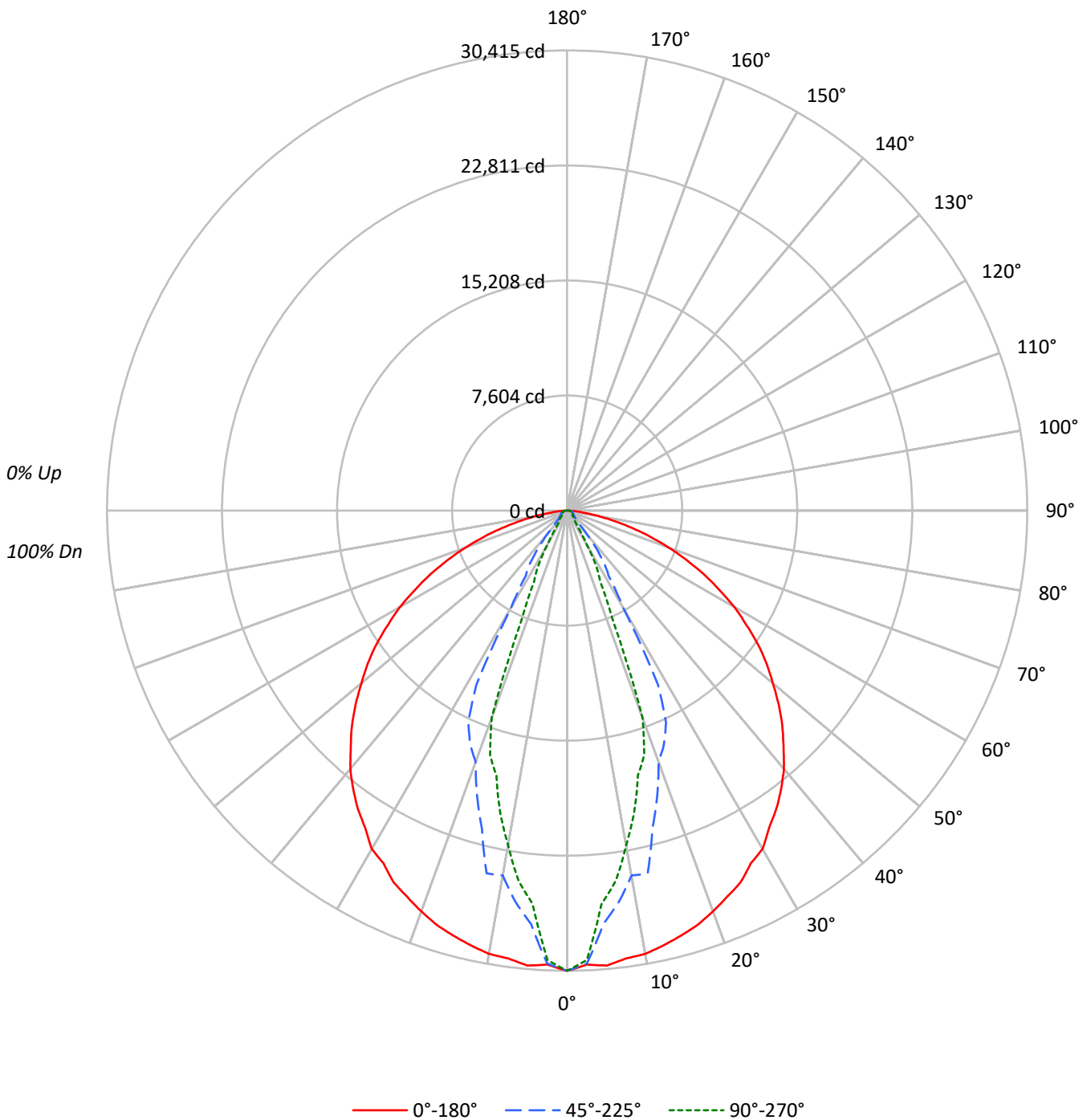
Lumens per Lamp: N/A
Luminaire Lumens: 30197.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44644	44644	44644
5°	44427	40117	38104
10°	44237	35962	32881
15°	44044	32345	26721
20°	43829	26776	21890
25°	43672	24073	7963
30°	43462	11998	4151
35°	42808	7263	1580
40°	42277	3635	1377
45°	41243	1576	1019
50°	39934	1335	929
55°	38668	1116	974
60°	36713	1162	950
65°	33735	1260	970
70°	29647	1318	1006
75°	23961	1459	1108
80°	16487	1732	1226
85°	9278	2079	1536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2598.0	8.6
10°-20°	6298.4	20.9
20°-30°	6861.2	22.7
30°-40°	5278.2	17.5
40°-50°	3899.9	12.9
50°-60°	2453.8	8.1
60°-70°	1606.8	5.3
70°-80°	899.6	3.0
80°-90°	301.2	1.0
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°	15757.7	52.2
0°-40°	21035.8	69.7
0°-60°	27389.5	90.7
0°-90°	30197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30415	30415	30415	30415	30415	
5°	30186	29951	27432	25813	26108	###
15°	29081	25284	21776	18903	18098	8211
25°	27123	20267	15460	6886	5167	12469
35°	24100	14935	4297	1369	949	15071
45°	20117	7955	824	695	545	15492
55°	15380	2039	490	515	440	13702
65°	9974	505	430	385	345	9837
75°	4422	380	340	305	275	4745
85°	630	240	245	235	205	803
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30415.4	30415.4	30415.4	30415.4	30415.4
2.5°	30040.7	30050.7	29975.7	29825.8	29730.9
5°	30185.6	29950.7	27432.4	25813.4	26108.2
7.5°	29855.8	28641.6	26108.2	24899.0	24664.1
10°	29745.9	26632.9	24494.3	24084.5	22485.5
12.5°	29431.1	25413.7	24569.2	21985.9	20451.9
15°	29081.3	25283.7	21776.0	18902.8	18098.4
17.5°	28701.5	24144.5	19787.3	17323.9	16939.1
20°	28186.9	23414.9	17678.6	15924.8	14570.6
22.5°	27632.2	23065.2	16724.2	10378.3	8044.8
25°	27122.6	20267.0	15460.1	6885.6	5166.7
27.5°	26283.1	20042.1	12986.7	5041.8	4262.3
30°	25828.4	17963.5	7430.2	3792.6	2603.3
32.5°	24844.0	16334.5	5086.7	2303.5	1554.0
35°	24099.5	14935.4	4297.2	1369.1	949.4
37.5°	23225.1	14011.0	3212.9	939.4	824.5
40°	22295.7	12921.7	2033.7	839.5	784.5
42.5°	21166.4	11637.5	1204.2	789.5	674.6
45°	20117.1	7954.9	824.5	694.6	544.6
47.5°	18957.8	5426.5	704.5	589.6	469.7
50°	17748.6	3547.7	644.6	524.7	459.7
52.5°	16614.3	2908.1	559.6	524.7	459.7
55°	15380.1	2038.7	489.7	514.7	439.7
57.5°	14026.0	1269.2	459.7	499.7	424.7
60°	12776.8	749.5	454.7	484.7	384.8
62.5°	11317.7	569.6	444.7	429.7	364.8
65°	9973.6	504.7	429.7	384.8	344.8
67.5°	8529.5	454.7	399.7	369.8	334.8
70°	7145.4	409.7	379.8	344.8	304.8
72.5°	5756.3	394.7	359.8	324.8	289.8
75°	4422.2	379.8	339.8	304.8	274.8
77.5°	3217.9	354.8	319.8	294.8	259.8
80°	2088.7	324.8	304.8	274.8	234.8
82.5°	1164.3	294.8	279.8	254.8	224.9
85°	629.6	239.8	244.8	234.8	204.9
87.5°	114.9	169.9	209.9	204.9	179.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)