

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-LD5-28-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-LD5-28-N-TWBWG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25983.1 lumens
Efficiency: N/A
Efficacy: 127.4 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

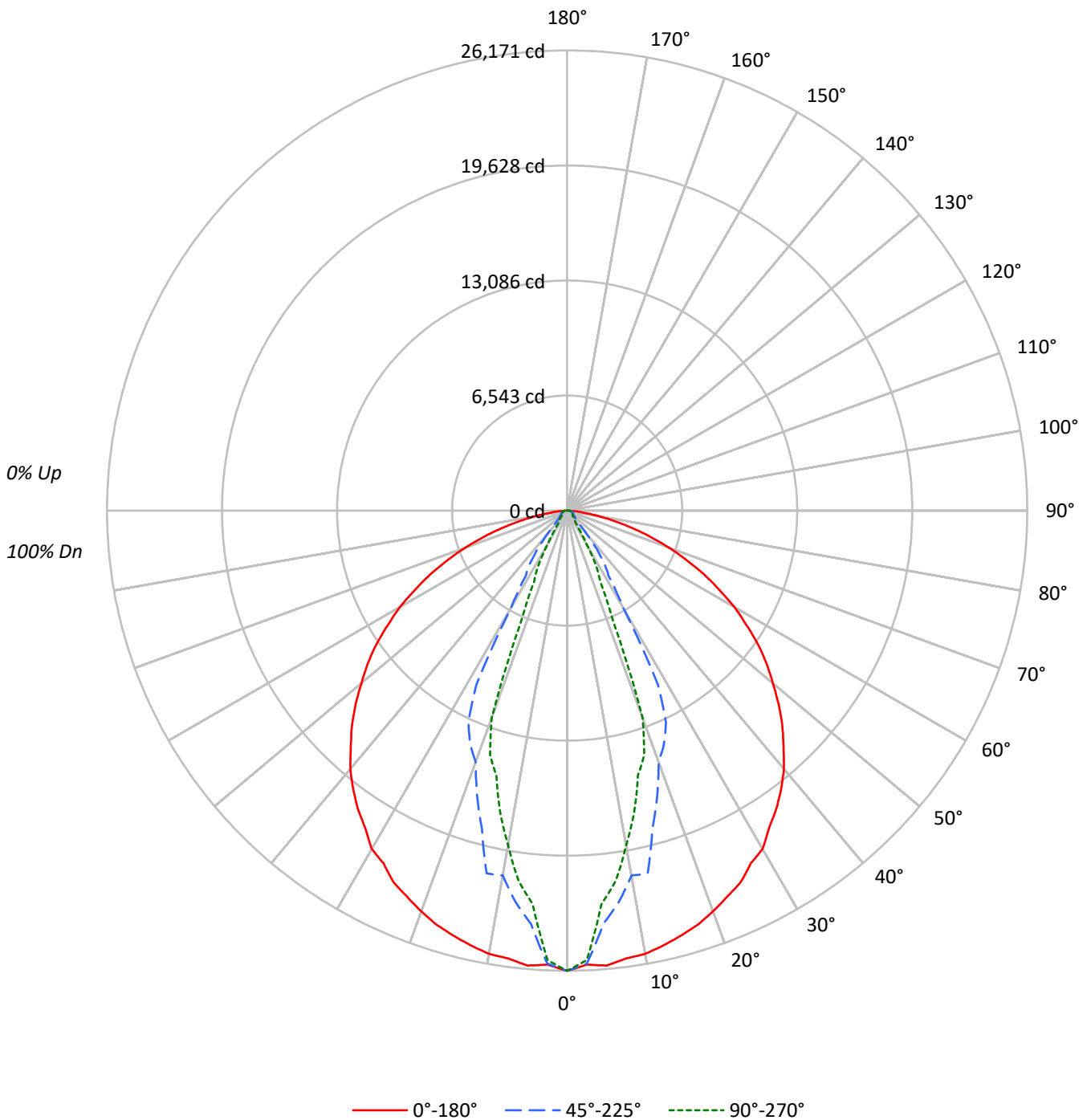
Input Watts (W): 204
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	38414	38414	38414
5°	38227	34519	32787
10°	38064	30944	28293
15°	37898	27832	22992
20°	37712	23040	18835
25°	37577	20714	6851
30°	37397	10323	3572
35°	36834	6249	1360
40°	36377	3127	1185
45°	35488	1356	877
50°	34361	1149	799
55°	33272	960	838
60°	31590	1000	818
65°	29028	1084	835
70°	25510	1134	866
75°	20617	1255	953
80°	14186	1490	1055
85°	7982	1790	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2235.5	8.6
10°-20°	5419.5	20.9
20°-30°	5903.7	22.7
30°-40°	4541.6	17.5
40°-50°	3355.6	12.9
50°-60°	2111.3	8.1
60°-70°	1382.6	5.3
70°-80°	774.1	3.0
80°-90°	259.2	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°	13558.7	52.2
0°-40°	18100.3	69.7
0°-60°	23567.3	90.7
0°-90°	25983.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25983.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26171	26171	26171	26171	26171	
5°	25973	25771	23604	22211	22465	###
15°	25023	21755	18737	16265	15573	7065
25°	23338	17439	13303	5925	4446	10729
35°	20736	12851	3698	1178	817	12968
45°	17310	6845	709	598	469	13330
55°	13234	1754	421	443	378	11790
65°	8582	434	370	331	297	8464
75°	3805	327	292	262	236	4082
85°	542	206	211	202	176	691
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26171.0	26171.0	26171.0	26171.0	26171.0
2.5°	25848.5	25857.1	25792.6	25663.6	25581.9
5°	25973.2	25771.1	23604.2	22211.1	22464.8
7.5°	25689.4	24644.6	22464.8	21424.3	21222.3
10°	25594.8	22916.3	21076.1	20723.5	19347.7
12.5°	25324.0	21867.2	21140.6	18917.7	17597.8
15°	25023.0	21755.4	18737.2	16265.0	15572.7
17.5°	24696.2	20775.1	17026.0	14906.3	14575.3
20°	24253.4	20147.4	15211.6	13702.5	12537.3
22.5°	23776.1	19846.4	14390.4	8930.0	6922.2
25°	23337.6	17438.7	13302.6	5924.7	4445.7
27.5°	22615.3	17245.2	11174.4	4338.2	3667.5
30°	22224.0	15456.6	6393.3	3263.3	2240.0
32.5°	21377.0	14055.0	4376.9	1982.1	1337.1
35°	20736.4	12851.2	3697.6	1178.1	816.9
37.5°	19984.0	12055.8	2764.6	808.3	709.4
40°	19184.3	11118.5	1749.9	722.3	675.0
42.5°	18212.6	10013.5	1036.2	679.3	580.4
45°	17309.7	6844.8	709.4	597.6	468.6
47.5°	16312.2	4669.2	606.2	507.3	404.2
50°	15271.8	3052.6	554.6	451.4	395.6
52.5°	14295.8	2502.3	481.5	451.4	395.6
55°	13233.8	1754.2	421.3	442.8	378.4
57.5°	12068.7	1092.1	395.6	429.9	365.5
60°	10993.8	644.9	391.3	417.1	331.1
62.5°	9738.3	490.1	382.7	369.8	313.9
65°	8581.8	434.2	369.8	331.1	296.7
67.5°	7339.2	391.3	344.0	318.2	288.1
70°	6148.3	352.6	326.8	296.7	262.3
72.5°	4953.0	339.7	309.6	279.5	249.4
75°	3805.0	326.8	292.4	262.3	236.5
77.5°	2768.9	305.3	275.2	253.7	223.6
80°	1797.2	279.5	262.3	236.5	202.1
82.5°	1001.8	253.7	240.8	219.3	193.5
85°	541.7	206.4	210.7	202.1	176.3
87.5°	98.9	146.2	180.6	176.3	154.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)