

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-TWB-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 (P34185)
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-TWB-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

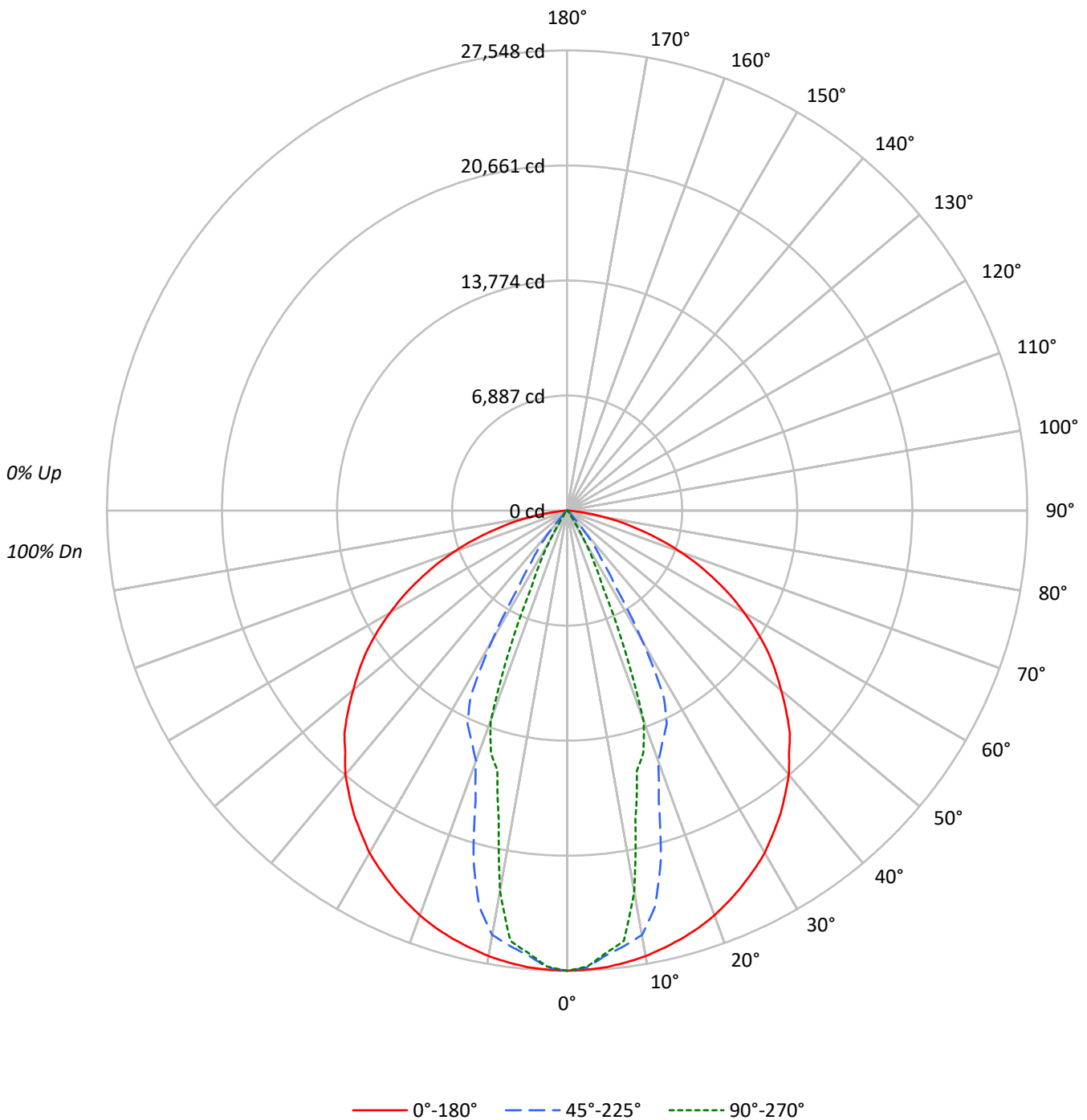
Lumens per Lamp: N/A
Luminaire Lumens: 27707.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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°	40434	40434	40434
5°	40372	39081	38801
10°	40272	37874	33811
15°	40172	32161	23808
20°	40091	24161	20130
25°	39910	21970	7816
30°	39819	14552	3331
35°	39501	6198	736
40°	39158	2735	525
45°	38659	654	243
50°	37618	404	131
55°	36804	257	134
60°	35174	233	139
65°	33005	242	146
70°	29874	256	158
75°	24803	298	175
80°	17963	345	158
85°	6068	368	195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2530.5	9.1
10°-20°	6039.7	21.8
20°-30°	6603.7	23.8
30°-40°	4779.1	17.2
40°-50°	3566.6	12.9
50°-60°	2082.6	7.5
60°-70°	1294.7	4.7
70°-80°	675.3	2.4
80°-90°	134.9	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°	15173.9	54.8
0°-40°	19952.9	72.0
0°-60°	25602.1	92.4
0°-90°	27707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27548	27548	27548	27548	27548	
5°	27430	27331	26724	26642	26585	###
15°	26524	25592	21652	16932	16125	7490
25°	24786	21041	14110	7356	5072	11434
35°	22237	13564	3667	793	442	13903
45°	18856	8865	342	234	130	14479
55°	14638	1717	113	130	61	13033
65°	9758	143	82	78	52	9648
75°	4578	87	69	56	43	4906
85°	412	56	43	39	26	780
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27547.5	27547.5	27547.5	27547.5	27547.5
2.5°	27504.2	27538.8	27374.1	27374.1	27326.4
5°	27430.5	27330.8	26723.9	26641.5	26585.2
7.5°	27270.1	26879.9	26286.1	26177.7	25991.3
10°	27079.3	26394.4	25796.2	24253.1	23121.7
12.5°	26810.6	25991.3	24296.4	20473.1	18904.0
15°	26524.5	25592.5	21652.2	16931.6	16125.4
17.5°	26186.4	25063.7	18214.7	15527.2	15180.4
20°	25783.2	24205.4	15952.0	14560.5	13398.8
22.5°	25310.8	22874.6	14929.0	12102.7	8968.7
25°	24786.2	21041.0	14109.7	7356.1	5071.7
27.5°	24235.7	18873.6	12488.5	4469.2	3463.5
30°	23663.5	16645.5	9012.0	3203.4	2089.4
32.5°	22931.0	14824.9	5466.2	1803.3	932.0
35°	22237.4	13563.5	3667.2	793.3	442.1
37.5°	21435.5	12692.2	2678.9	420.5	312.1
40°	20650.9	11842.6	1530.2	316.4	299.1
42.5°	19662.5	10784.9	645.9	299.1	212.4
45°	18856.3	8864.6	342.4	234.1	130.0
47.5°	17789.9	6068.7	229.7	182.1	82.4
50°	16719.2	3749.6	195.1	143.0	65.0
52.5°	15700.6	2483.8	143.0	134.4	60.7
55°	14638.5	1716.6	112.7	130.0	60.7
57.5°	13459.5	845.3	95.4	125.7	56.4
60°	12241.4	329.4	91.0	121.4	56.4
62.5°	11036.3	182.1	86.7	99.7	52.0
65°	9757.6	143.0	82.4	78.0	52.0
67.5°	8491.8	117.0	78.0	73.7	52.0
70°	7200.1	104.0	73.7	65.0	47.7
72.5°	5882.3	95.4	69.4	65.0	43.3
75°	4577.5	86.7	69.4	56.4	43.3
77.5°	3424.5	82.4	65.0	56.4	34.7
80°	2275.8	73.7	60.7	47.7	30.3
82.5°	1257.1	69.4	52.0	43.3	30.3
85°	411.8	56.4	43.3	39.0	26.0
87.5°	65.0	39.0	34.7	34.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)