

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-WG-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 (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-WG-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

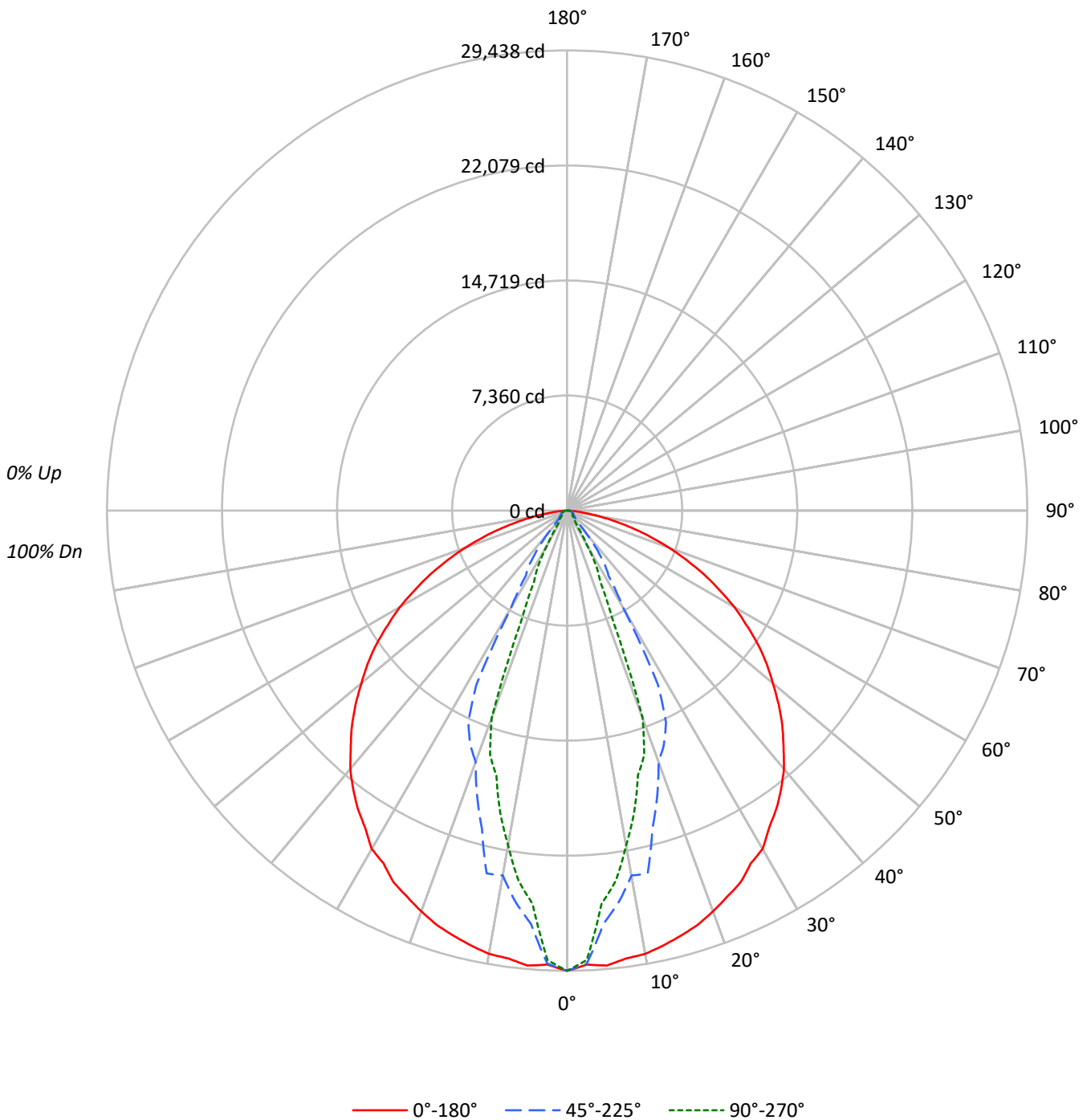
Lumens per Lamp: N/A
Luminaire Lumens: 29227.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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°	43210	43210	43210
5°	43000	38829	36881
10°	42816	34807	31825
15°	42629	31306	25863
20°	42421	25916	21187
25°	42269	23300	7707
30°	42066	11612	4018
35°	41433	7030	1530
40°	40919	3518	1333
45°	39919	1525	987
50°	38651	1292	899
55°	37426	1080	942
60°	35534	1125	919
65°	32652	1220	939
70°	28695	1276	974
75°	23191	1412	1072
80°	15957	1676	1187
85°	8980	2013	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2514.6	8.6
10°-20°	6096.1	20.9
20°-30°	6640.8	22.7
30°-40°	5108.6	17.5
40°-50°	3774.6	12.9
50°-60°	2374.9	8.1
60°-70°	1555.1	5.3
70°-80°	870.7	3.0
80°-90°	291.5	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°	15251.5	52.2
0°-40°	20360.1	69.7
0°-60°	26509.6	90.7
0°-90°	29227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29438	29438	29438	29438	29438	
5°	29216	28989	26551	24984	25270	###
15°	28147	24472	21076	18296	17517	7948
25°	26251	19616	14963	6664	5001	12068
35°	23325	14456	4159	1325	919	14587
45°	19471	7699	798	672	527	14995
55°	14886	1973	474	498	426	13262
65°	9653	488	416	372	334	9521
75°	4280	368	329	295	266	4592
85°	609	232	237	227	198	777
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29438.4	29438.4	29438.4	29438.4	29438.4
2.5°	29075.7	29085.4	29012.8	28867.7	28775.9
5°	29216.0	28988.7	26551.2	24984.2	25269.6
7.5°	28896.8	27721.6	25269.6	24099.2	23871.9
10°	28790.4	25777.4	23707.4	23310.9	21763.3
12.5°	28485.7	24597.3	23780.0	21279.6	19794.9
15°	28147.1	24471.6	21076.5	18295.6	17517.0
17.5°	27779.6	23368.9	19151.7	16767.4	16395.0
20°	27281.4	22662.8	17110.8	15413.2	14102.6
22.5°	26744.6	22324.3	16187.0	10045.0	7786.4
25°	26251.3	19615.9	14963.4	6664.4	5000.7
27.5°	25438.8	19398.3	12569.5	4879.8	4125.3
30°	24998.7	17386.4	7191.5	3670.7	2519.7
32.5°	24046.0	15809.8	4923.3	2229.5	1504.1
35°	23325.4	14455.6	4159.2	1325.1	918.9
37.5°	22479.0	13560.9	3109.7	909.2	798.0
40°	21579.5	12506.6	1968.4	812.5	759.3
42.5°	20486.5	11263.7	1165.5	764.1	652.9
45°	19470.9	7699.4	798.0	672.2	527.2
47.5°	18348.8	5252.2	681.9	570.7	454.6
50°	17178.5	3433.8	623.9	507.8	444.9
52.5°	16080.6	2814.7	541.7	507.8	444.9
55°	14886.1	1973.2	474.0	498.1	425.6
57.5°	13575.4	1228.4	444.9	483.6	411.1
60°	12366.4	725.4	440.1	469.1	372.4
62.5°	10954.2	551.3	430.4	415.9	353.0
65°	9653.2	488.5	415.9	372.4	333.7
67.5°	8255.5	440.1	386.9	357.9	324.0
70°	6915.9	396.6	367.6	333.7	295.0
72.5°	5571.4	382.1	348.2	314.4	280.5
75°	4280.1	367.6	328.9	295.0	266.0
77.5°	3114.6	343.4	309.5	285.3	251.5
80°	2021.6	314.4	295.0	266.0	227.3
82.5°	1126.9	285.3	270.8	246.7	217.6
85°	609.4	232.1	237.0	227.3	198.3
87.5°	111.2	164.4	203.1	198.3	174.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)