

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-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 (P34173)
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-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

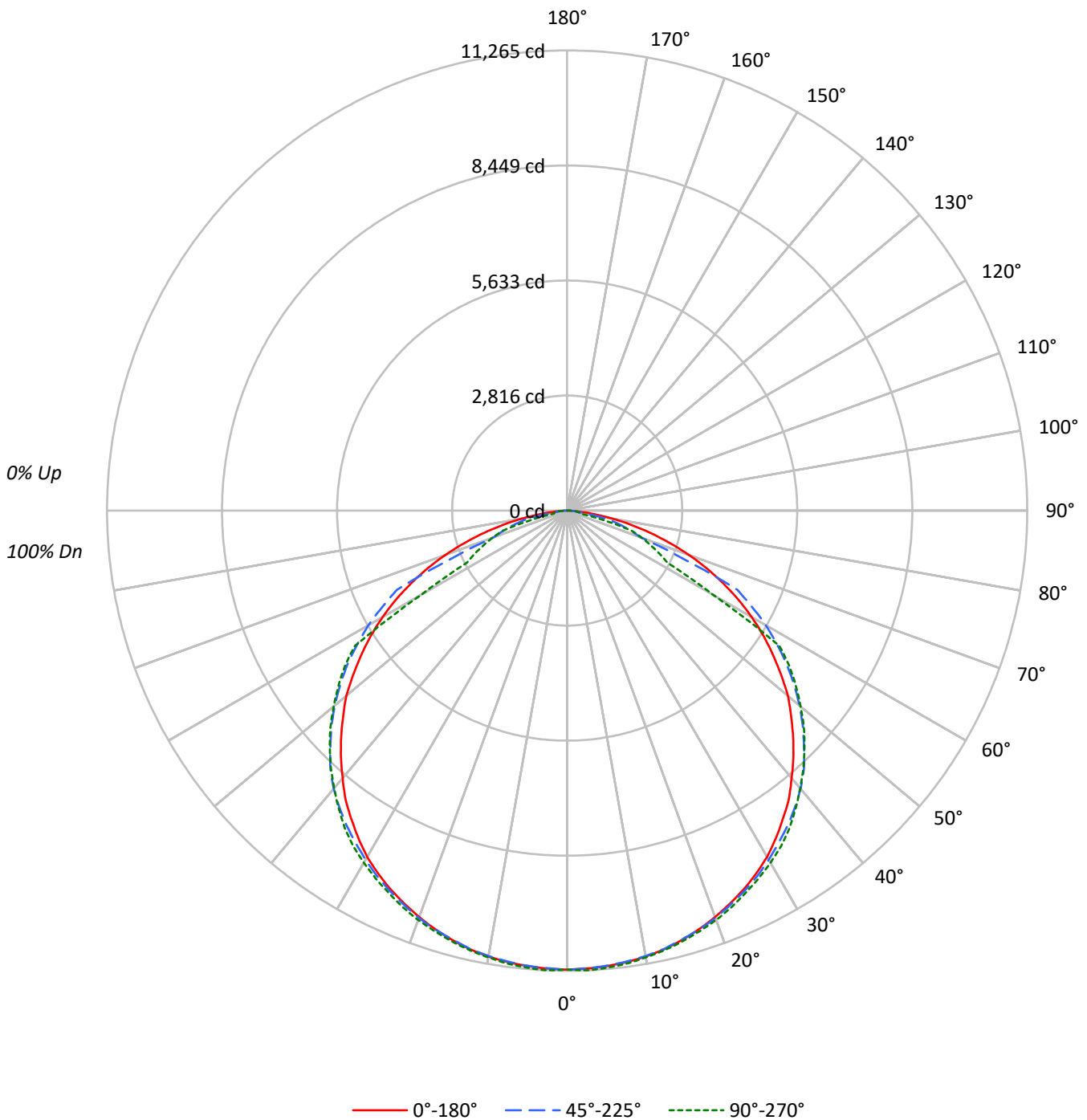
Lumens per Lamp: N/A
Luminaire Lumens: 32432.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	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	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16496	16496	16496
5°	16475	16357	16396
10°	16487	16257	16245
15°	16479	16142	16117
20°	16466	16073	16024
25°	16467	15994	15920
30°	16471	15936	15871
35°	16362	15908	15796
40°	16210	15894	15580
45°	16040	15673	15380
50°	15881	15389	15077
55°	15450	14965	14706
60°	14995	14364	10211
65°	14261	13505	7004
70°	13129	6604	6414
75°	11349	5765	4005
80°	8585	3433	1636
85°	4486	1749	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1066.1	3.3
10°-20°	3078.1	9.5
20°-30°	4746.1	14.6
30°-40°	5876.9	18.1
40°-50°	6256.0	19.3
50°-60°	5772.8	17.8
60°-70°	3696.1	11.4
70°-80°	1664.9	5.1
80°-90°	274.9	0.8
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°	8890.3	27.4
0°-40°	14767.2	45.5
0°-60°	26796.1	82.6
0°-90°	32432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11239	11239	11239	11239	11239	
5°	11194	11212	11185	11216	11234	###
15°	10880	10898	10867	10921	10916	3073
25°	10227	10254	10272	10339	10330	4717
35°	9211	9305	9412	9511	9489	5766
45°	7824	7985	8200	8253	8218	6037
55°	6145	6369	6566	6673	6642	5496
65°	4216	4418	4606	2542	2488	4164
75°	2095	2278	1343	1378	994	2226
85°	304	228	206	219	201	443
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11238.6	11238.6	11238.6	11238.6	<i>11238.6</i>
2.5°	<i>11220.7</i>	<i>11243.1</i>	<i>11211.7</i>	<i>11243.1</i>	<i>11265.4</i>
5°	11193.8	11211.7	11184.9	11216.2	<i>11234.1</i>
7.5°	11149.1	11167.0	11135.6	11167.0	<i>11184.9</i>
10°	11086.4	11095.4	11073.0	11104.3	<i>11108.8</i>
12.5°	10996.9	11005.9	10987.9	11019.3	<i>11023.8</i>
15°	10880.5	10898.4	10867.1	10920.8	<i>10916.3</i>
17.5°	10746.3	10764.2	10750.7	10791.0	<i>10795.5</i>
20°	10589.6	10607.5	10612.0	10661.2	<i>10665.7</i>
22.5°	10415.1	10441.9	10446.4	10513.5	<i>10509.0</i>
25°	10227.1	10253.9	10271.8	10339.0	<i>10330.0</i>
27.5°	10021.2	10057.0	10083.8	10151.0	<i>10151.0</i>
30°	9788.4	9837.7	9869.0	9958.5	<i>9954.1</i>
32.5°	9511.0	9604.9	9640.7	9752.6	<i>9743.7</i>
35°	9211.1	9305.1	9412.5	9511.0	<i>9488.6</i>
37.5°	8915.7	9009.7	9157.4	9215.6	<i>9188.7</i>
40°	8548.7	8705.3	8893.3	8915.7	<i>8875.4</i>
42.5°	8199.6	8324.9	8580.0	8593.4	<i>8557.6</i>
45°	7823.6	7984.7	8199.6	8253.3	<i>8217.5</i>
47.5°	7434.2	7573.0	7823.6	7890.7	<i>7863.9</i>
50°	7058.2	7183.6	7429.7	7496.9	<i>7461.1</i>
52.5°	6597.2	6785.2	6995.6	7103.0	<i>7062.7</i>
55°	6145.2	6369.0	6565.9	6673.3	<i>6642.0</i>
57.5°	5693.1	5939.3	6087.0	6234.7	<i>6158.6</i>
60°	5218.7	5460.4	5621.5	5554.4	<i>4135.6</i>
62.5°	4726.4	4959.1	5093.4	3415.0	<i>2770.5</i>
65°	4216.1	4417.6	4605.5	2542.2	<i>2488.5</i>
67.5°	3697.0	3898.4	3065.9	2260.2	<i>2211.0</i>
70°	3164.3	3352.3	1902.2	1969.3	<i>1942.5</i>
72.5°	2627.3	2806.3	1633.6	1709.7	<i>1673.9</i>
75°	2094.6	2278.2	1342.7	1378.5	<i>993.6</i>
77.5°	1597.8	1571.0	1083.1	760.9	<i>340.2</i>
80°	1087.6	725.1	604.2	317.8	<i>313.3</i>
82.5°	675.8	487.9	255.1	282.0	<i>277.5</i>
85°	304.4	228.3	205.9	219.3	<i>201.4</i>
87.5°	107.4	111.9	125.3	116.4	<i>107.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)