

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-FLWG-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 (P34182)
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-FLWG-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

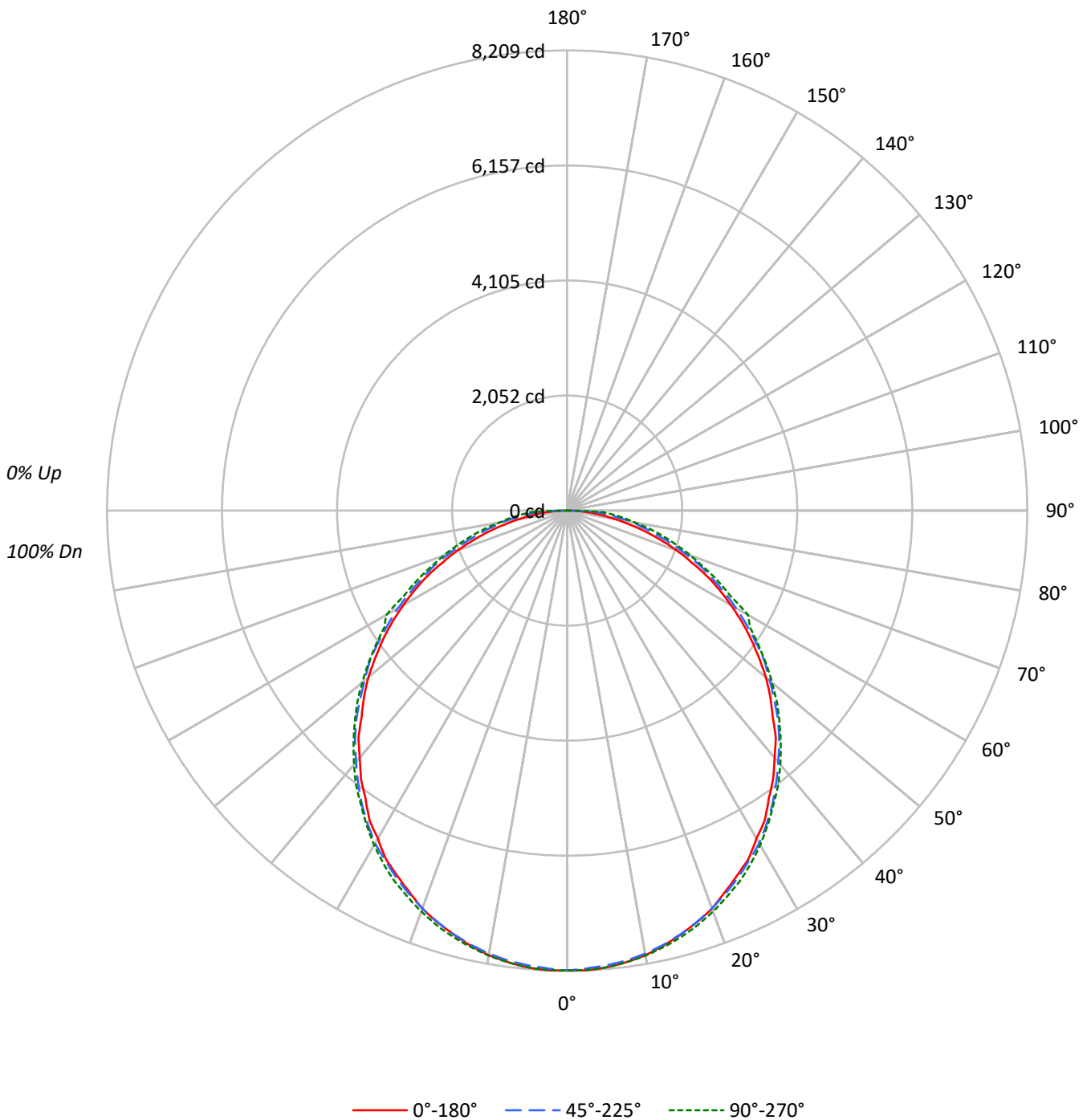
Lumens per Lamp: N/A
Luminaire Lumens: 23333.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12043	12043	12043
5°	12037	11907	11936
10°	11976	11784	11789
15°	11857	11622	11625
20°	11749	11437	11432
25°	11561	11243	11238
30°	11366	11066	10984
35°	11140	10796	10671
40°	10915	10472	10380
45°	10627	10182	10028
50°	10414	9772	9642
55°	10072	9386	9207
60°	9698	8898	9206
65°	9266	8348	8341
70°	8636	7770	7715
75°	7858	7053	7162
80°	6783	6689	6381
85°	5804	5779	6073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.7	3.3
10°-20°	2212.8	9.5
20°-30°	3332.4	14.3
30°-40°	3985.2	17.1
40°-50°	4092.8	17.5
50°-60°	3675.4	15.8
60°-70°	2828.1	12.1
70°-80°	1743.1	7.5
80°-90°	687.5	2.9
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°	6320.9	27.1
0°-40°	10306.2	44.2
0°-60°	18074.4	77.5
0°-90°	23333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8205	8205	8205	8205	8205	
5°	8178	8174	8142	8174	8178	777
15°	7829	7842	7824	7856	7874	2210
25°	7180	7189	7220	7274	7292	3311
35°	6271	6361	6388	6410	6410	3933
45°	5184	5264	5327	5349	5358	4015
55°	4006	4060	4118	4163	4158	3582
65°	2739	2766	2847	2945	2963	2701
75°	1450	1526	1643	1750	1777	1533
85°	394	524	680	779	810	451
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8204.9	8204.9	8204.9	8204.9	8204.9
2.5°	8209.4	8204.9	8173.6	8196.0	8204.9
5°	8178.1	8173.6	8142.2	8173.6	8178.1
7.5°	8124.3	8124.3	8093.0	8124.3	8128.8
10°	8052.7	8052.7	8025.9	8052.7	8061.7
12.5°	7949.8	7958.7	7931.9	7963.2	7972.1
15°	7828.9	7842.3	7824.4	7855.8	7873.7
17.5°	7699.1	7703.6	7694.6	7734.9	7752.8
20°	7555.9	7551.4	7551.4	7605.1	7609.6
22.5°	7363.4	7385.8	7390.2	7448.4	7452.9
25°	7179.9	7188.8	7220.1	7273.9	7291.8
27.5°	7005.3	7000.8	7032.1	7081.4	7099.3
30°	6754.6	6799.4	6853.1	6871.0	6888.9
32.5°	6557.7	6571.1	6624.8	6642.7	6656.1
35°	6271.2	6360.7	6387.6	6409.9	6409.9
37.5°	6038.4	6087.7	6123.5	6163.8	6181.7
40°	5756.4	5819.1	5859.4	5899.7	5913.1
42.5°	5510.2	5550.5	5599.8	5631.1	5640.0
45°	5183.5	5264.0	5326.7	5349.1	5358.0
47.5°	4914.9	5004.4	5013.4	5067.1	5080.5
50°	4628.4	4695.6	4717.9	4780.6	4771.6
52.5°	4310.6	4391.2	4444.9	4462.8	4467.3
55°	4006.2	4059.9	4118.1	4162.9	4158.4
57.5°	3697.4	3742.1	3791.4	3858.5	3863.0
60°	3375.1	3428.8	3482.5	3549.6	3728.7
62.5°	3061.7	3093.1	3155.7	3285.5	3272.1
65°	2739.4	2766.3	2846.9	2945.4	2963.3
67.5°	2390.3	2444.0	2564.9	2627.5	2636.5
70°	2081.4	2130.7	2238.1	2318.7	2336.6
72.5°	1754.7	1812.9	1929.3	2032.2	2059.1
75°	1450.3	1526.4	1642.8	1750.2	1777.1
77.5°	1137.0	1235.4	1374.2	1633.8	1508.5
80°	859.4	971.3	1177.2	1208.6	1222.0
82.5°	613.2	734.1	881.8	989.2	1025.1
85°	393.9	523.7	680.4	778.9	810.2
87.5°	219.3	344.7	510.3	608.8	635.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)