

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-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-LD5-28-N-TWBWG-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

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

Summary

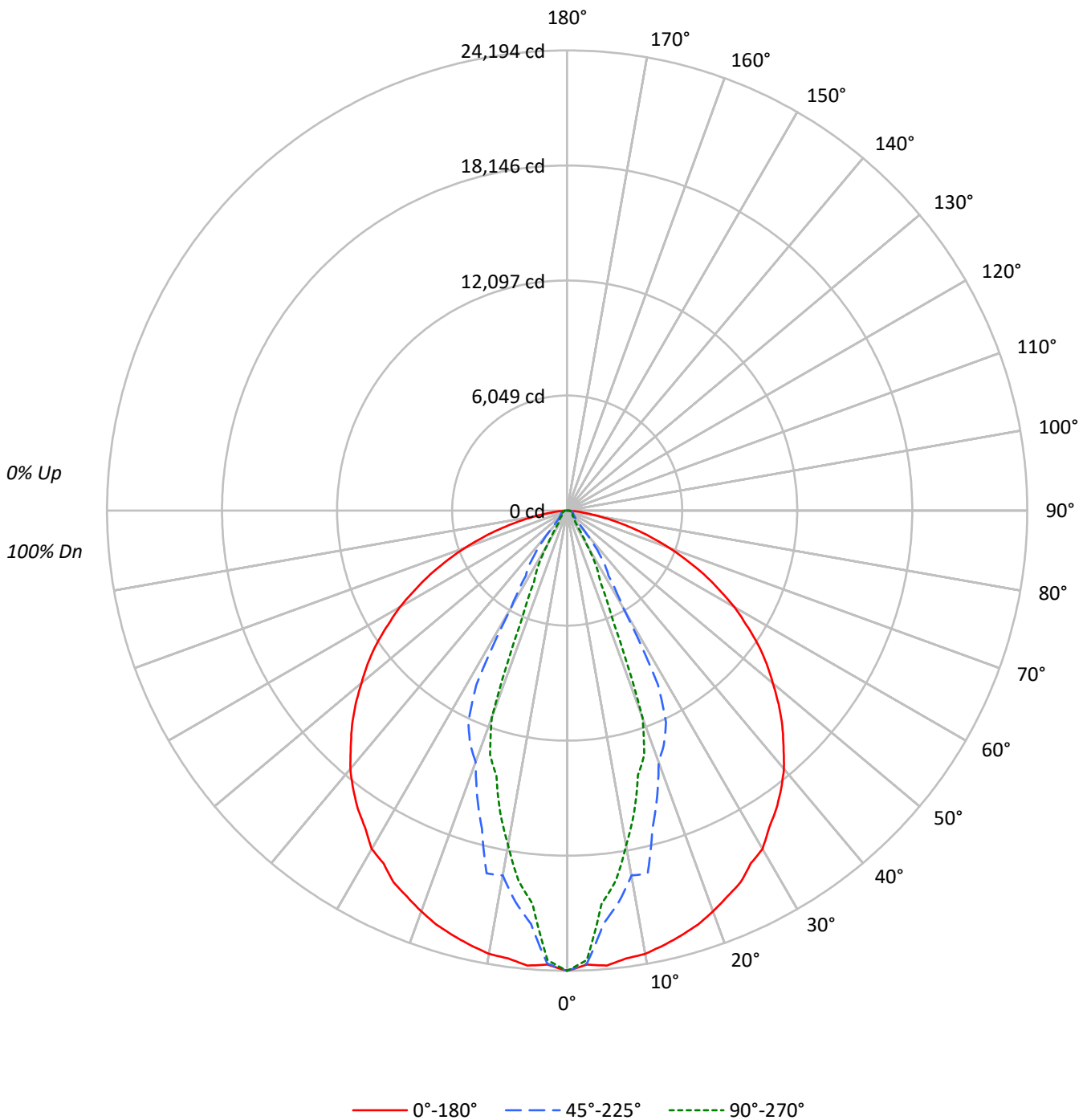
Lumens per Lamp: N/A
Luminaire Lumens: 24020.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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°	35512	35512	35512
5°	35339	31911	30310
10°	35188	28606	26155
15°	35034	25729	21255
20°	34863	21299	17412
25°	34738	19149	6334
30°	34572	9543	3302
35°	34052	5777	1257
40°	33629	2891	1095
45°	32807	1254	811
50°	31765	1062	739
55°	30758	888	774
60°	29203	924	756
65°	26834	1002	772
70°	23583	1049	801
75°	19060	1161	881
80°	13114	1378	975
85°	7380	1655	1222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2066.6	8.6
10°-20°	5010.0	20.9
20°-30°	5457.7	22.7
30°-40°	4198.5	17.5
40°-50°	3102.1	12.9
50°-60°	1951.8	8.1
60°-70°	1278.1	5.3
70°-80°	715.6	3.0
80°-90°	239.6	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°	12534.3	52.2
0°-40°	16732.8	69.7
0°-60°	21786.8	90.7
0°-90°	24020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24194	24194	24194	24194	24194	
5°	24011	23824	21821	20533	20768	###
15°	23132	20112	17322	15036	14396	6532
25°	21574	16121	12298	5477	4110	9918
35°	19170	11880	3418	1089	755	11988
45°	16002	6328	656	552	433	12323
55°	12234	1622	390	409	350	10899
65°	7933	401	342	306	274	7824
75°	3518	302	270	242	219	3774
85°	501	191	195	187	163	638
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24193.8	24193.8	24193.8	24193.8	24193.8
2.5°	23895.7	23903.6	23844.0	23724.8	23649.2
5°	24010.9	23824.1	21820.9	20533.1	20767.6
7.5°	23748.6	22782.8	20767.6	19805.7	19618.9
10°	23661.2	21184.9	19483.8	19157.9	17886.0
12.5°	23410.8	20215.1	19543.4	17488.5	16268.3
15°	23132.5	20111.8	17321.6	15036.1	14396.2
17.5°	22830.5	19205.6	15739.7	13780.2	13474.1
20°	22421.1	18625.3	14062.4	12667.2	11590.1
22.5°	21979.9	18347.0	13303.2	8255.4	6399.2
25°	21574.5	16121.2	12297.6	5477.1	4109.8
27.5°	20906.7	15942.4	10330.1	4010.4	3390.4
30°	20545.0	14288.9	5910.3	3016.8	2070.8
32.5°	19762.0	12993.2	4046.2	1832.3	1236.1
35°	19169.8	11880.3	3418.2	1089.1	755.2
37.5°	18474.2	11144.9	2555.7	747.2	655.8
40°	17734.9	10278.5	1617.7	667.7	624.0
42.5°	16836.7	9257.0	957.9	628.0	536.6
45°	16002.0	6327.7	655.8	552.5	433.2
47.5°	15079.9	4316.5	560.4	469.0	373.6
50°	14118.0	2822.0	512.7	417.3	365.7
52.5°	13215.7	2313.3	445.2	417.3	365.7
55°	12234.0	1621.7	389.5	409.4	349.8
57.5°	11156.9	1009.6	365.7	397.5	337.8
60°	10163.2	596.2	361.7	385.5	306.0
62.5°	9002.6	453.1	353.7	341.8	290.2
65°	7933.4	401.4	341.8	306.0	274.3
67.5°	6784.7	361.7	318.0	294.1	266.3
70°	5683.8	325.9	302.1	274.3	242.5
72.5°	4578.8	314.0	286.2	258.4	230.5
75°	3517.6	302.1	270.3	242.5	218.6
77.5°	2559.7	282.2	254.4	234.5	206.7
80°	1661.4	258.4	242.5	218.6	186.8
82.5°	926.1	234.5	222.6	202.7	178.9
85°	500.8	190.8	194.8	186.8	163.0
87.5°	91.4	135.1	166.9	163.0	143.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)