

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: **4ILED-LD5-14-W-CL-UNV-L835-CD2-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 (P34177)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-CL-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

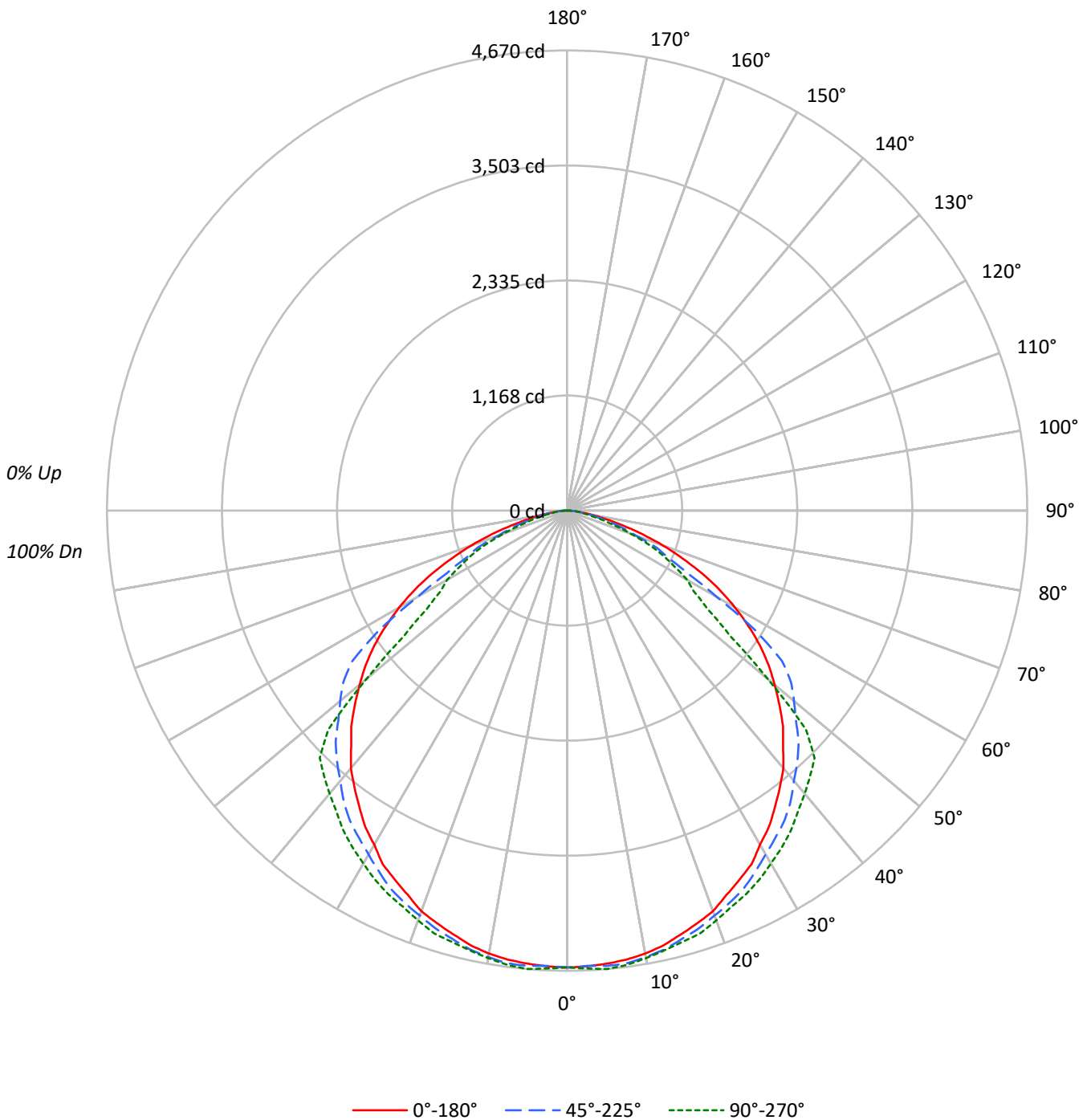
Lumens per Lamp: N/A
Luminaire Lumens: 12556.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	70	65		72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57		67	61	56		65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13611	13611	13611
5°	13572	13556	13633
10°	13547	13494	13488
15°	13444	13339	13379
20°	13395	13209	13296
25°	13237	13140	13238
30°	13083	12953	13190
35°	12946	12917	13186
40°	12811	12712	13169
45°	12547	12599	13292
50°	12190	12332	10750
55°	11801	12007	7691
60°	11081	8854	6945
65°	9969	6484	6036
70°	8309	5078	4538
75°	6091	3748	3028
80°	3885	2615	1892
85°	1928	1557	1415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	3.5
10°-20°	1273.8	10.1
20°-30°	1950.2	15.5
30°-40°	2400.5	19.1
40°-50°	2544.3	20.3
50°-60°	2043.4	16.3
60°-70°	1269.9	10.1
70°-80°	522.6	4.2
80°-90°	109.5	0.9
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°	3665.8	29.2
0°-40°	6066.3	48.3
0°-60°	10653.9	84.9
0°-90°	12556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4636	4636	4636	4636	4636	
5°	4616	4627	4638	4663	4670	439
15°	4453	4516	4500	4531	4531	1259
25°	4134	4178	4236	4283	4295	1907
35°	3676	3766	3844	3940	3961	2302
45°	3098	3166	3322	3481	3551	2383
55°	2388	2494	2664	1901	1737	2125
65°	1512	1620	1123	1067	1072	1490
75°	587	540	447	400	376	644
85°	74	91	96	96	94	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4636.5	4636.5	4636.5	4636.5	4636.5
2.5°	4628.9	4634.6	4625.1	4645.9	4651.6
5°	4615.7	4627.0	4638.3	4662.9	4670.4
7.5°	4596.8	4621.4	4634.6	4649.7	4649.7
10°	4564.7	4602.5	4602.5	4608.1	4611.9
12.5°	4519.4	4570.4	4560.9	4564.7	4570.4
15°	4453.3	4515.6	4500.5	4530.7	4530.7
17.5°	4391.0	4443.9	4445.8	4483.5	4496.8
20°	4326.9	4370.3	4374.0	4428.8	4425.0
22.5°	4223.0	4289.1	4308.0	4338.2	4353.3
25°	4134.3	4177.7	4236.2	4283.4	4294.8
27.5°	4049.3	4085.2	4132.4	4213.6	4223.0
30°	3915.3	3990.8	4030.5	4138.1	4136.2
32.5°	3809.6	3877.6	3934.2	4038.0	4053.1
35°	3675.6	3766.2	3843.6	3939.9	3960.6
37.5°	3545.3	3628.4	3724.6	3819.0	3847.3
40°	3413.2	3488.7	3581.2	3694.4	3751.1
42.5°	3243.3	3335.8	3456.6	3586.8	3651.0
45°	3097.9	3165.9	3322.5	3481.1	3551.0
47.5°	2922.3	3011.1	3148.9	3350.9	3286.7
50°	2748.6	2850.6	3005.4	3035.6	2659.9
52.5°	2576.9	2678.8	2865.7	2401.3	2080.4
55°	2388.1	2493.8	2663.7	1901.0	1736.8
57.5°	2182.3	2282.4	2267.3	1578.2	1521.6
60°	1969.0	2067.1	1755.7	1381.9	1406.4
62.5°	1748.1	1853.8	1378.1	1262.9	1225.2
65°	1512.1	1619.7	1123.2	1066.6	1072.3
67.5°	1266.7	1357.3	985.4	909.9	891.0
70°	1034.5	1060.9	745.7	724.9	687.2
72.5°	802.3	768.3	592.8	547.5	507.8
75°	587.1	539.9	447.4	400.2	375.7
77.5°	407.8	373.8	322.8	339.8	251.1
80°	262.4	243.5	237.9	188.8	181.2
82.5°	154.8	152.9	147.2	135.9	132.1
85°	73.6	90.6	96.3	96.3	94.4
87.5°	26.4	45.3	60.4	64.2	68.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)