

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: P730352

Luminaire Tested: **HBLED-LD5-12SE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-FLI-UNV-L735
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11028.0 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

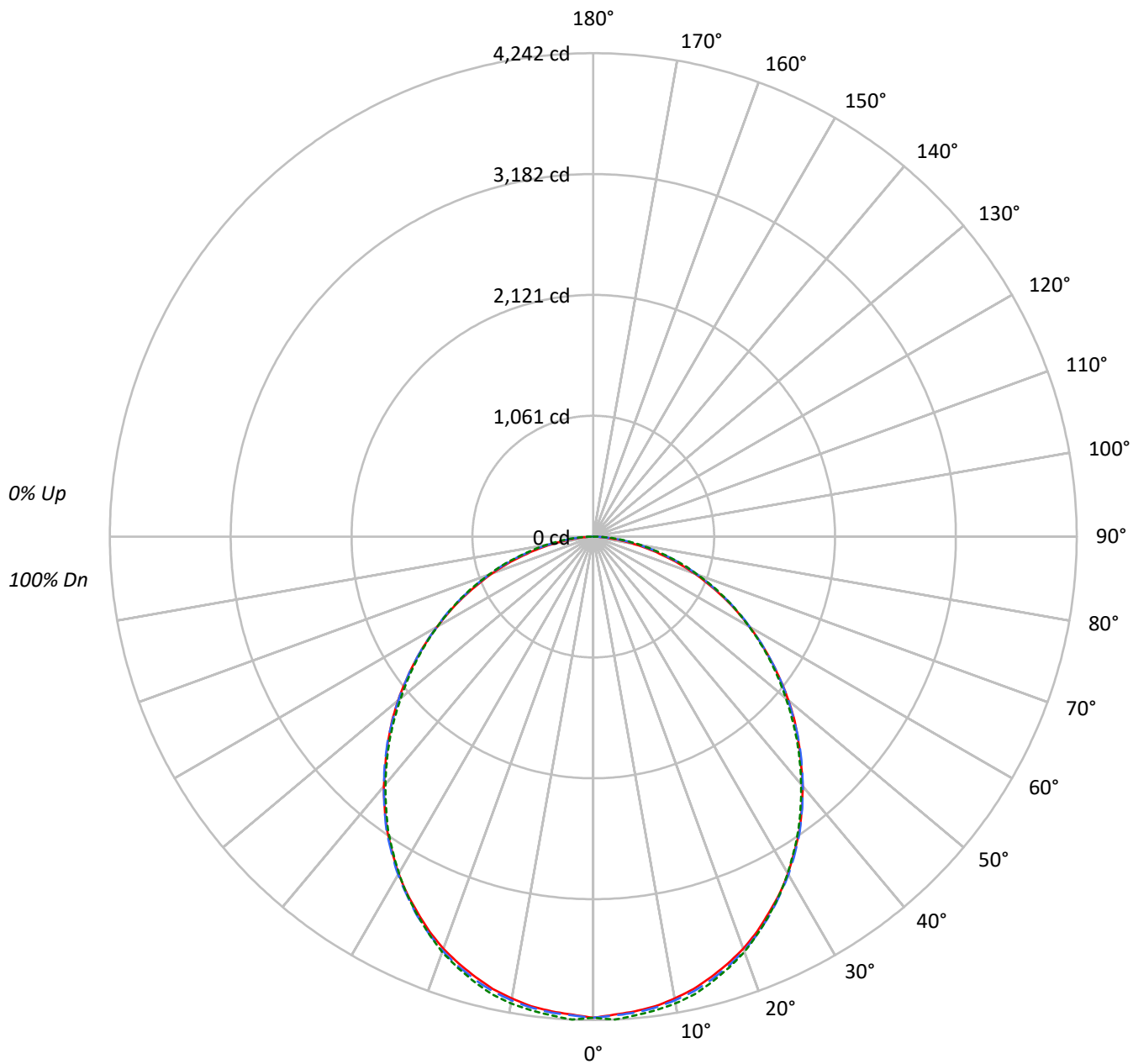
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6816	6816	6816
5°	6778	6797	6836
10°	6747	6774	6818
15°	6688	6724	6757
20°	6612	6644	6663
25°	6489	6526	6517
30°	6370	6387	6361
35°	6212	6228	6188
40°	6025	6025	5979
45°	5815	5831	5771
50°	5615	5605	5535
55°	5372	5373	5324
60°	5112	5118	5098
65°	4818	4866	4878
70°	4450	4572	4577
75°	3933	4187	4253
80°	3225	3667	3874
85°	2238	3079	3481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	3.6
10°-20°	1135.9	10.3
20°-30°	1688.0	15.3
30°-40°	1973.7	17.9
40°-50°	1967.8	17.8
50°-60°	1707.3	15.5
60°-70°	1261.1	11.4
70°-80°	706.1	6.4
80°-90°	188.4	1.7
90°-100°	0.6	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°	3223.1	29.2
0°-40°	5196.8	47.1
0°-60°	8871.9	80.4
0°-90°	11027.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4222	4222	4222	4222	4222	
5°	4182	4208	4194	4212	4218	397
15°	4001	4029	4023	4042	4042	1128
25°	3643	3672	3663	3671	3658	1679
35°	3152	3179	3160	3159	3140	1969
45°	2546	2574	2554	2543	2527	1966
55°	1908	1922	1909	1905	1891	1706
65°	1261	1273	1274	1280	1277	1247
75°	630	649	671	676	682	671
85°	121	146	166	181	188	147
90°	0	3	3	7	7	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4221.8	4221.8	4221.8	4221.8	4221.8
2.5°	4198.8	4223.7	4206.3	4222.9	4242.3
5°	4181.8	4208.2	4193.6	4212.2	4217.5
7.5°	4157.1	4182.7	4168.7	4187.2	4192.9
10°	4115.2	4142.9	4131.9	4152.9	4158.8
12.5°	4066.4	4092.4	4085.2	4109.6	4113.6
15°	4000.9	4028.8	4022.6	4042.0	4042.2
17.5°	3928.4	3954.7	3950.1	3965.2	3964.6
20°	3848.1	3876.3	3866.7	3883.0	3877.9
22.5°	3753.1	3783.1	3771.0	3784.8	3771.9
25°	3642.7	3672.0	3663.4	3671.4	3658.0
27.5°	3535.9	3562.7	3545.0	3554.7	3540.4
30°	3416.7	3439.5	3425.8	3429.0	3411.8
32.5°	3282.7	3309.8	3293.1	3292.6	3274.4
35°	3151.7	3179.3	3159.7	3159.2	3139.6
37.5°	3006.7	3032.5	3009.4	3010.7	2987.9
40°	2858.8	2881.1	2858.8	2857.7	2836.8
42.5°	2698.2	2727.7	2707.4	2709.7	2681.8
45°	2546.5	2573.7	2553.5	2543.0	2527.4
47.5°	2395.4	2407.2	2390.5	2387.8	2365.9
50°	2235.4	2244.2	2231.6	2228.4	2203.7
52.5°	2070.0	2085.3	2069.2	2064.9	2048.5
55°	1908.3	1921.5	1908.6	1905.4	1891.4
57.5°	1745.7	1762.8	1749.7	1746.4	1735.2
60°	1583.0	1588.0	1584.8	1589.7	1578.7
62.5°	1421.3	1433.1	1436.9	1435.6	1427.0
65°	1261.0	1273.4	1273.7	1280.1	1276.9
67.5°	1097.0	1113.1	1117.7	1124.4	1127.3
70°	942.6	955.0	968.4	972.4	969.5
72.5°	787.2	807.0	822.1	825.6	838.2
75°	630.4	649.2	671.2	676.0	681.7
77.5°	484.9	509.8	529.7	536.2	543.1
80°	346.9	374.5	394.4	403.2	416.7
82.5°	227.7	255.9	276.0	284.8	301.2
85°	120.8	146.1	166.2	180.9	187.9
87.5°	35.7	57.2	68.7	73.0	79.2
90°	0.0	2.7	3.2	7.2	6.7
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)