

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: P730353

Luminaire Tested: **HBLED-LD5-12SE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730353
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-L740
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11363.0 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

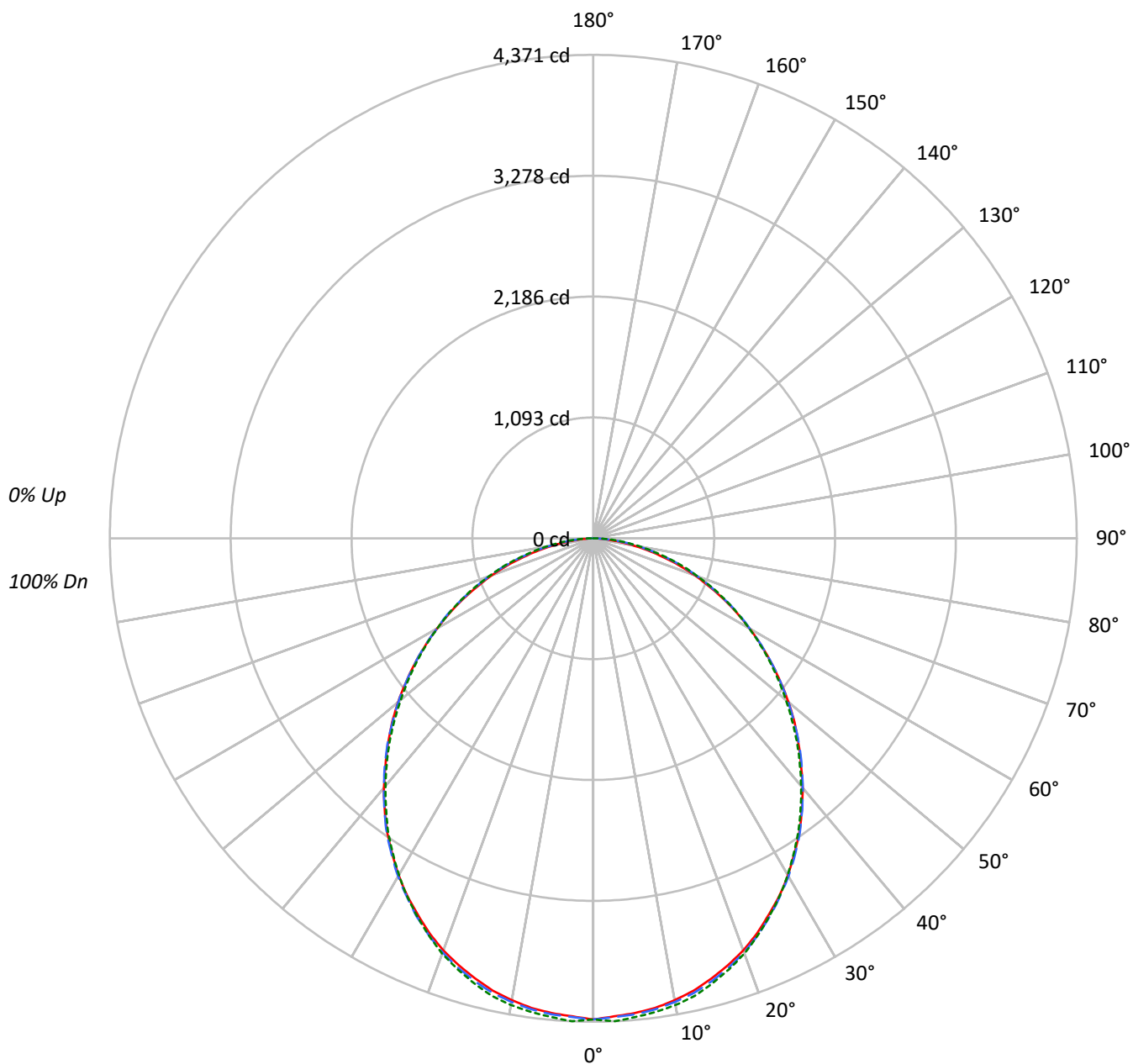
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7024	7024	7024
5°	6984	7003	7043
10°	6952	6980	7025
15°	6891	6928	6962
20°	6813	6846	6865
25°	6687	6725	6715
30°	6563	6581	6554
35°	6401	6417	6376
40°	6208	6208	6161
45°	5991	6008	5946
50°	5786	5776	5703
55°	5535	5536	5486
60°	5267	5273	5253
65°	4964	5014	5027
70°	4585	4710	4716
75°	4052	4314	4382
80°	3323	3779	3992
85°	2306	3172	3587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.4	3.6
10°-20°	1170.4	10.3
20°-30°	1739.2	15.3
30°-40°	2033.6	17.9
40°-50°	2027.6	17.8
50°-60°	1759.2	15.5
60°-70°	1299.4	11.4
70°-80°	727.5	6.4
80°-90°	194.1	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°	3321.0	29.2
0°-40°	5354.7	47.1
0°-60°	9141.4	80.4
0°-90°	11362.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4350	4350	4350	4350	4350	
5°	4309	4336	4321	4340	4346	409
15°	4122	4151	4145	4165	4165	1163
25°	3753	3784	3775	3783	3769	1730
35°	3247	3276	3256	3255	3235	2028
45°	2624	2652	2631	2620	2604	2026
55°	1966	1980	1967	1963	1949	1758
65°	1299	1312	1312	1319	1316	1285
75°	650	669	692	697	702	692
85°	124	150	171	186	194	151
90°	0	3	3	8	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°	4350.1	4350.1	4350.1	4350.1	4350.1
2.5°	4326.3	4352.0	4334.0	4351.2	4371.1
5°	4308.9	4336.0	4321.0	4340.1	4345.7
7.5°	4283.4	4309.7	4295.3	4314.4	4320.2
10°	4240.2	4268.8	4257.4	4279.0	4285.1
12.5°	4189.9	4216.7	4209.3	4234.4	4238.6
15°	4122.4	4151.2	4144.8	4164.8	4165.0
17.5°	4047.7	4074.8	4070.1	4085.6	4085.0
20°	3965.0	3994.0	3984.1	4001.0	3995.7
22.5°	3867.1	3898.1	3885.6	3899.7	3886.4
25°	3753.4	3783.6	3774.7	3783.0	3769.2
27.5°	3643.3	3670.9	3652.7	3662.6	3648.0
30°	3520.4	3544.0	3529.9	3533.2	3515.5
32.5°	3382.4	3410.3	3393.2	3392.6	3373.8
35°	3247.4	3275.9	3255.7	3255.1	3235.0
37.5°	3098.0	3124.6	3100.8	3102.2	3078.7
40°	2945.6	2968.6	2945.6	2944.5	2922.9
42.5°	2780.2	2810.6	2789.6	2792.1	2763.3
45°	2623.9	2651.8	2631.1	2620.3	2604.2
47.5°	2468.2	2480.3	2463.2	2460.4	2437.7
50°	2303.3	2312.4	2299.4	2296.1	2270.6
52.5°	2132.9	2148.6	2132.0	2127.6	2110.7
55°	1966.3	1979.9	1966.6	1963.3	1948.9
57.5°	1798.7	1816.4	1802.8	1799.5	1787.9
60°	1631.1	1636.3	1633.0	1637.9	1626.6
62.5°	1464.5	1476.7	1480.6	1479.2	1470.3
65°	1299.3	1312.1	1312.3	1319.0	1315.7
67.5°	1130.3	1146.9	1151.7	1158.5	1161.6
70°	971.2	984.0	997.8	1001.9	998.9
72.5°	811.1	831.6	847.1	850.6	863.6
75°	649.5	668.9	691.6	696.6	702.4
77.5°	499.6	525.3	545.8	552.4	559.6
80°	357.4	385.9	406.4	415.5	429.3
82.5°	234.6	263.6	284.4	293.5	310.4
85°	124.5	150.5	171.2	186.4	193.6
87.5°	36.8	58.9	70.8	75.2	81.6
90°	0.0	2.8	3.3	7.5	6.9
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)