

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: P730316

Luminaire Tested: **HBLED-LD5-12SE-N-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-UNV-L735
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11960.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

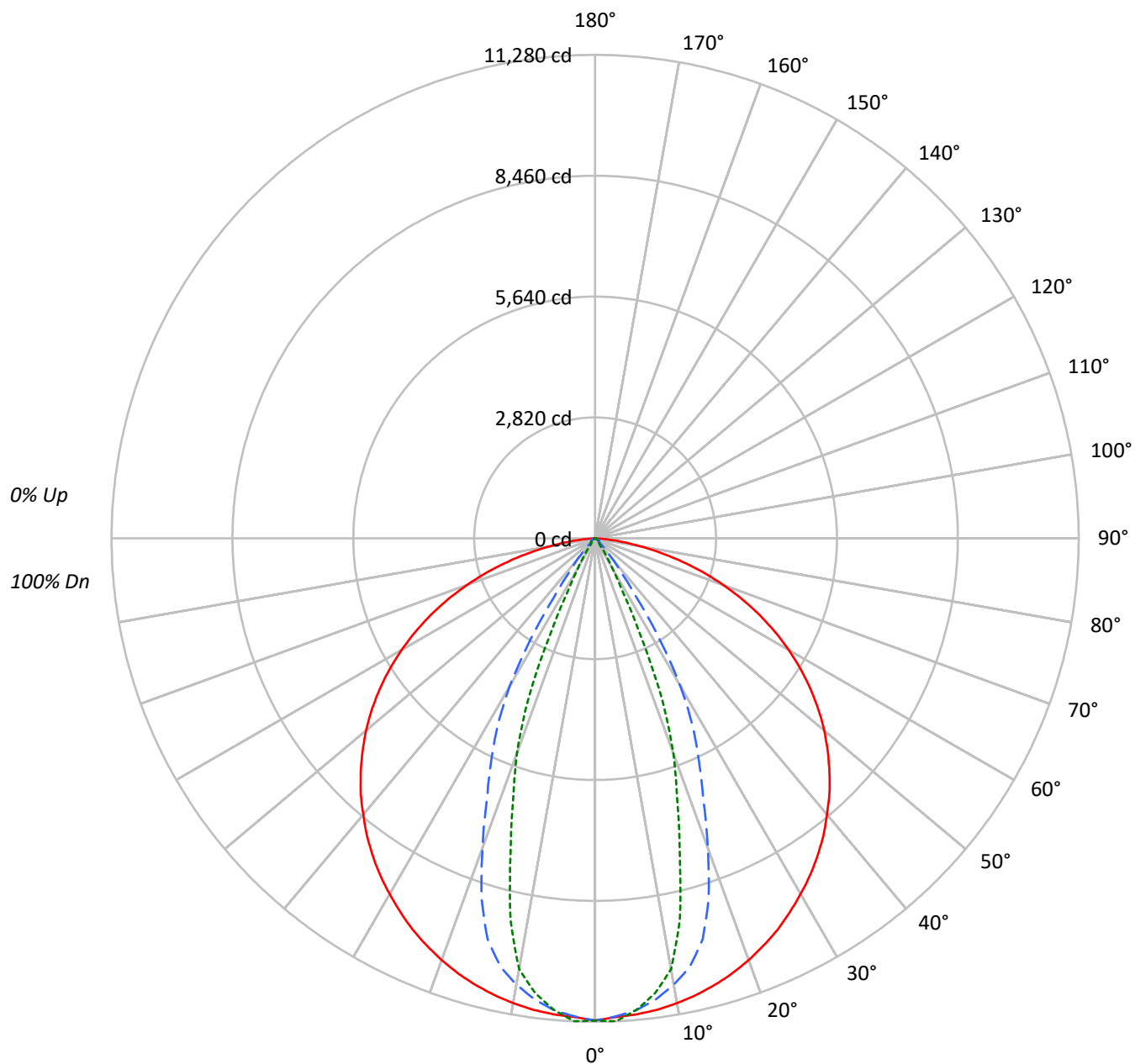
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18168	18168	18168
5°	18071	17911	17904
10°	18060	17337	16729
15°	18034	16197	12732
20°	17992	13204	9164
25°	17946	10210	4514
30°	17867	7420	1464
35°	17825	3292	377
40°	17732	1337	254
45°	17652	375	270
50°	17515	266	300
55°	17262	316	128
60°	16836	353	78
65°	16144	225	92
70°	14998	200	114
75°	13120	150	157
80°	9809	184	224
85°	4859	237	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1044.2	8.7
10°-20°	2611.1	21.8
20°-30°	2828.3	23.6
30°-40°	2094.5	17.5
40°-50°	1508.5	12.6
50°-60°	934.1	7.8
60°-70°	574.4	4.8
70°-80°	302.8	2.5
80°-90°	62.0	0.5
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°	6483.7	54.2
0°-40°	8578.1	71.7
0°-60°	11020.7	92.1
0°-90°	11960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11252	11252	11252	11252	11252	
5°	11150	11191	11051	11059	11046	###
15°	10789	10538	9690	8240	7617	3046
25°	10074	9228	5731	3605	2534	4642
35°	9043	6375	1670	393	191	5658
45°	7731	3592	164	119	118	5962
55°	6132	740	112	102	46	5474
65°	4226	78	59	37	24	4169
75°	2103	18	24	32	25	2221
85°	262	7	13	19	16	396
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11252.5	11252.5	11252.5	11252.5	11252.5
2.5°	11180.2	11251.5	11167.4	11230.1	11279.8
5°	11149.7	11191.0	11051.2	11059.3	11046.4
7.5°	11096.2	11086.6	10851.6	10748.8	10703.9
10°	11015.4	10951.7	10574.8	10360.2	10203.9
12.5°	10911.0	10768.6	10229.6	9547.1	9123.1
15°	10788.9	10538.4	9690.0	8240.4	7616.8
17.5°	10643.3	10288.4	8807.8	6906.4	6349.7
20°	10471.5	10009.5	7684.7	5876.0	5333.7
22.5°	10279.9	9670.2	6593.8	4883.5	4110.0
25°	10073.8	9227.5	5730.9	3605.2	2534.1
27.5°	9835.6	8658.5	4921.5	2123.5	1293.3
30°	9583.5	7973.3	3979.9	1142.3	785.3
32.5°	9329.2	7196.5	2816.2	713.6	445.4
35°	9043.4	6375.4	1670.1	392.9	191.1
37.5°	8745.2	5622.8	987.1	178.8	122.6
40°	8412.8	4934.9	634.3	118.8	120.4
42.5°	8091.6	4293.6	357.1	117.2	119.4
45°	7730.8	3591.8	164.3	118.8	118.3
47.5°	7357.7	2864.4	106.5	119.9	119.9
50°	6972.8	2048.1	106.0	122.6	119.4
52.5°	6566.5	1277.8	110.3	122.1	98.0
55°	6132.4	739.8	112.4	101.7	45.5
57.5°	5682.7	436.3	113.5	58.3	25.7
60°	5213.8	241.4	109.2	43.3	24.1
62.5°	4730.4	115.1	86.2	40.7	23.5
65°	4225.6	78.2	58.9	37.4	24.1
67.5°	3701.6	60.5	46.6	35.3	24.6
70°	3177.0	44.9	42.3	35.3	24.1
72.5°	2643.9	30.5	35.3	35.8	24.1
75°	2103.2	18.2	24.1	31.6	25.1
77.5°	1567.3	11.2	18.7	32.6	30.5
80°	1055.0	9.6	19.8	30.5	24.1
82.5°	619.4	8.6	19.3	23.5	19.3
85°	262.3	7.0	12.8	19.3	16.0
87.5°	49.2	5.9	10.2	15.5	13.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)