

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: P730319

Luminaire Tested: **HBLED-LD5-12SE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730319
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-L835
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11433.0 lumens
Efficiency: N/A
Efficacy: 152.4 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

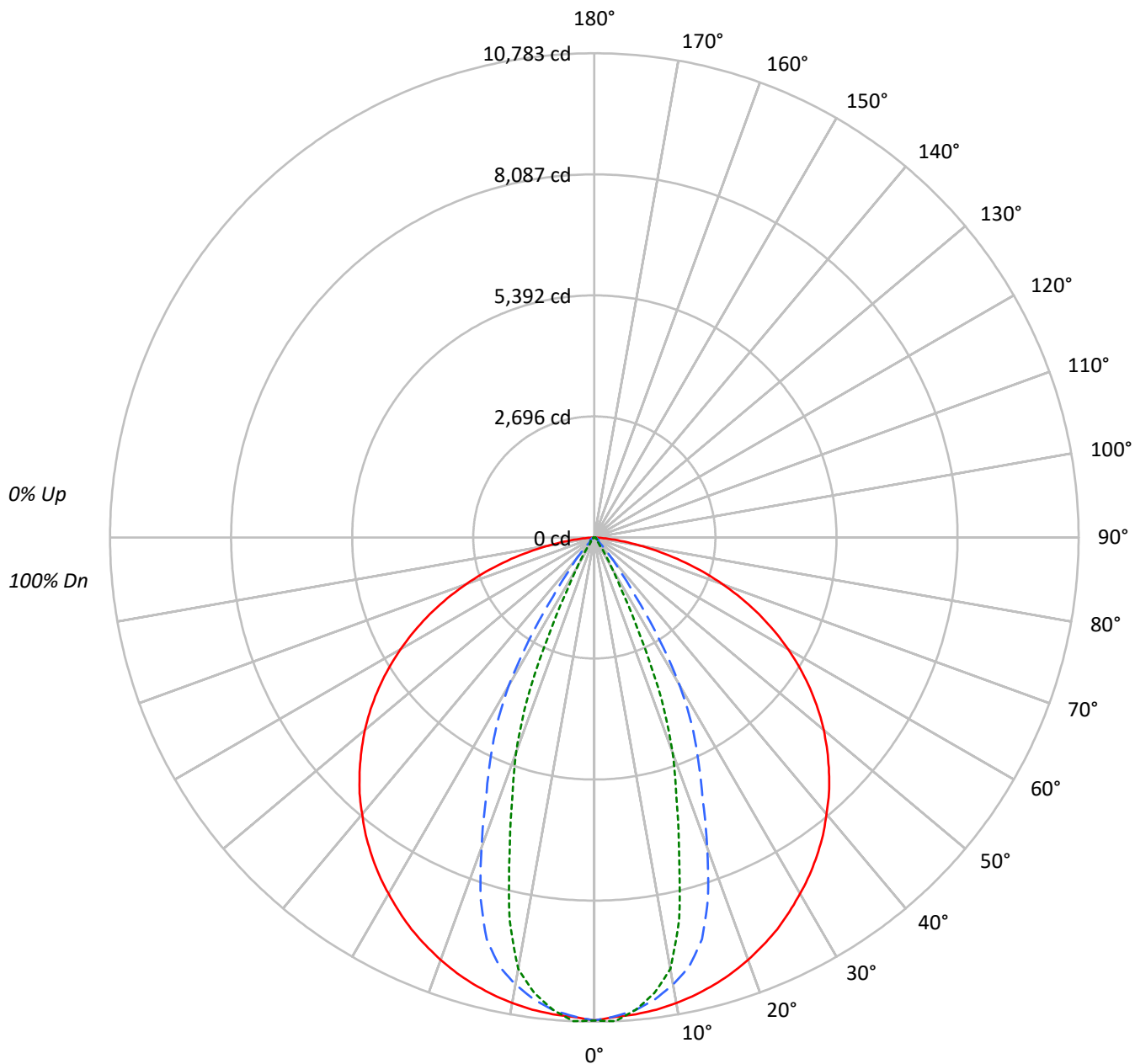
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	17368	17368	17368
5°	17275	17122	17115
10°	17264	16573	15992
15°	17239	15484	12171
20°	17199	12622	8761
25°	17156	9760	4316
30°	17080	7093	1400
35°	17040	3147	360
40°	16950	1278	243
45°	16874	359	258
50°	16743	254	287
55°	16502	302	122
60°	16095	337	74
65°	15432	215	88
70°	14337	191	109
75°	12542	143	150
80°	9378	176	214
85°	4644	228	283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.2	8.7
10°-20°	2496.1	21.8
20°-30°	2703.6	23.6
30°-40°	2002.2	17.5
40°-50°	1442.1	12.6
50°-60°	892.9	7.8
60°-70°	549.1	4.8
70°-80°	289.5	2.5
80°-90°	59.2	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°	6198.0	54.2
0°-40°	8200.1	71.7
0°-60°	10535.1	92.1
0°-90°	11433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10757	10757	10757	10757	10757	
5°	10658	10698	10564	10572	10560	###
15°	10314	10074	9263	7877	7281	2911
25°	9630	8821	5478	3446	2422	4437
35°	8645	6094	1596	376	183	5408
45°	7390	3434	157	114	113	5699
55°	5862	707	107	97	44	5233
65°	4039	75	56	36	23	3986
75°	2010	17	23	30	24	2124
85°	251	7	12	18	15	379
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10756.7	10756.7	10756.7	10756.7	10756.7
2.5°	10687.6	10755.7	10675.3	10735.2	10782.8
5°	10658.4	10697.8	10564.3	10571.9	10559.7
7.5°	10607.3	10598.1	10373.4	10275.2	10232.2
10°	10530.0	10469.1	10108.9	9903.7	9754.3
12.5°	10430.2	10294.1	9778.8	9126.4	8721.1
15°	10313.5	10074.1	9263.0	7877.3	7281.1
17.5°	10174.3	9835.1	8419.7	6602.1	6069.9
20°	10010.1	9568.5	7346.1	5617.1	5098.7
22.5°	9826.9	9244.1	6303.3	4668.3	3928.9
25°	9629.9	8820.9	5478.4	3446.4	2422.4
27.5°	9402.2	8276.9	4704.7	2030.0	1236.3
30°	9161.2	7621.9	3804.6	1092.0	750.7
32.5°	8918.1	6879.4	2692.1	682.1	425.7
35°	8644.9	6094.5	1596.5	375.6	182.7
37.5°	8359.8	5375.0	943.6	170.9	117.2
40°	8042.1	4717.5	606.4	113.6	115.1
42.5°	7735.1	4104.5	341.3	112.0	114.1
45°	7390.1	3433.6	157.1	113.6	113.1
47.5°	7033.5	2738.1	101.8	114.6	114.6
50°	6665.6	1957.8	101.3	117.2	114.1
52.5°	6277.2	1221.5	105.4	116.7	93.7
55°	5862.2	707.2	107.4	97.2	43.5
57.5°	5432.3	417.0	108.5	55.8	24.6
60°	4984.1	230.8	104.4	41.4	23.0
62.5°	4522.0	110.0	82.4	38.9	22.5
65°	4039.4	74.7	56.3	35.8	23.0
67.5°	3538.5	57.8	44.5	33.8	23.5
70°	3037.0	43.0	40.4	33.8	23.0
72.5°	2527.4	29.2	33.8	34.3	23.0
75°	2010.5	17.4	23.0	30.2	24.0
77.5°	1498.3	10.7	17.9	31.2	29.2
80°	1008.6	9.2	18.9	29.2	23.0
82.5°	592.1	8.2	18.4	22.5	18.4
85°	250.7	6.7	12.3	18.4	15.3
87.5°	47.1	5.6	9.7	14.8	13.3
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)