

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: P730607

Luminaire Tested: **HBLED-LD5-18SE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730607
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-LD5-18SE-N-UNV-L835
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17535.0 lumens
Efficiency: N/A
Efficacy: 152.7 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

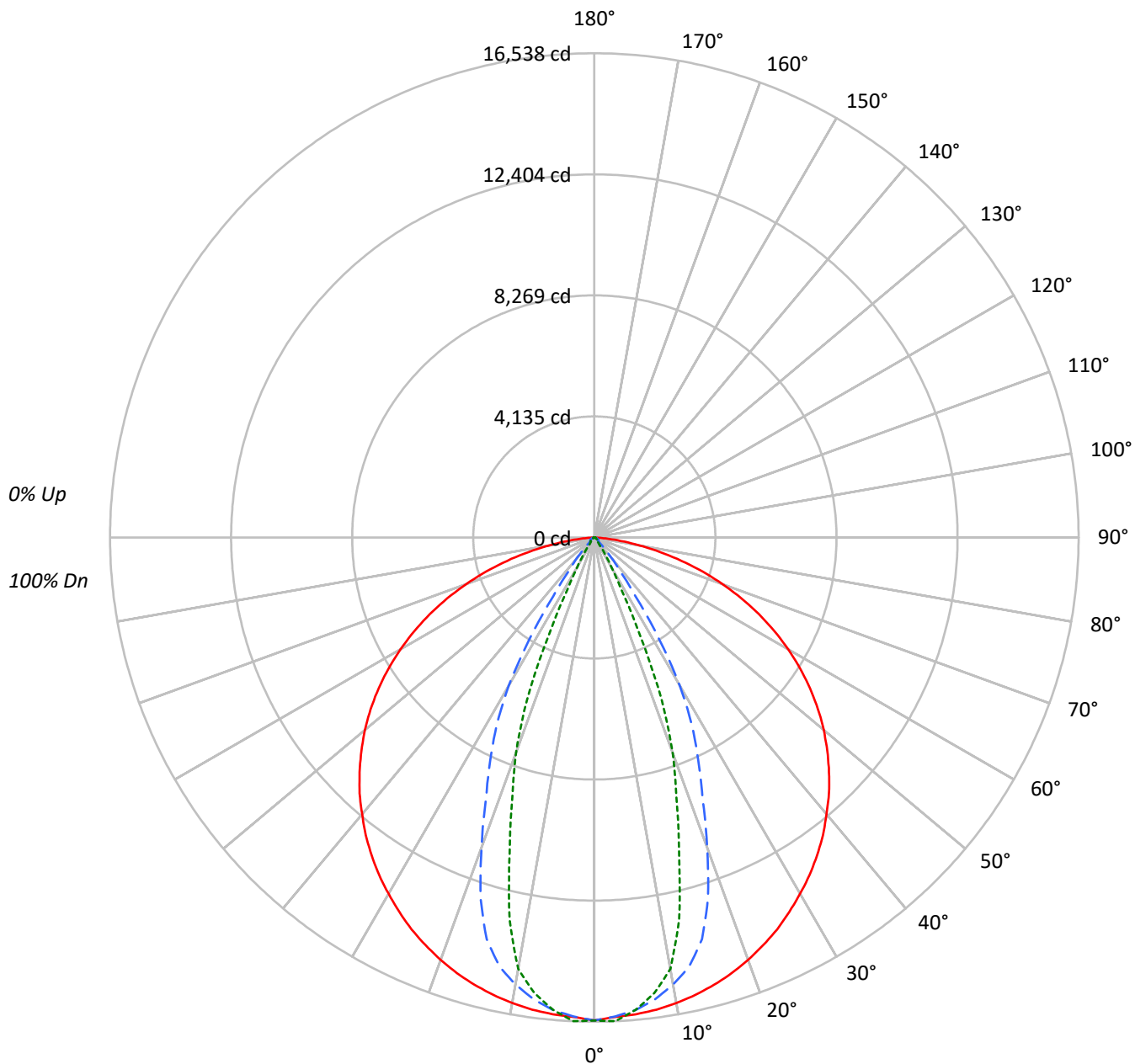
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26637	26637	26637
5°	26494	26260	26249
10°	26478	25419	24527
15°	26441	23747	18666
20°	26379	19359	13436
25°	26312	14969	6619
30°	26196	10879	2147
35°	26134	4826	552
40°	25997	1960	372
45°	25881	550	396
50°	25679	390	440
55°	25309	464	188
60°	24684	517	114
65°	23669	330	135
70°	21989	293	167
75°	19236	220	230
80°	14382	270	328
85°	7125	348	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1531.0	8.7
10°-20°	3828.3	21.8
20°-30°	4146.6	23.6
30°-40°	3070.8	17.5
40°-50°	2211.7	12.6
50°-60°	1369.5	7.8
60°-70°	842.2	4.8
70°-80°	444.0	2.5
80°-90°	90.9	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°	9505.9	54.2
0°-40°	12576.7	71.7
0°-60°	16157.9	92.1
0°-90°	17535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16498	16498	16498	16498	16498	
5°	16347	16408	16203	16214	16196	###
15°	15818	15451	14207	12082	11167	4465
25°	14770	13529	8402	5286	3715	6805
35°	13259	9347	2449	576	280	8295
45°	11334	5266	241	174	173	8741
55°	8991	1085	165	149	67	8026
65°	6195	115	86	55	35	6113
75°	3084	27	35	46	37	3257
85°	385	10	19	28	24	581
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16497.7	16497.7	16497.7	16497.7	16497.7
2.5°	16391.8	16496.2	16373.0	16464.8	16537.8
5°	16347.0	16407.5	16202.6	16214.4	16195.6
7.5°	16268.5	16254.4	15909.9	15759.2	15693.3
10°	16150.1	16056.6	15504.2	15189.5	14960.3
12.5°	15997.0	15788.3	14998.0	13997.3	13375.7
15°	15818.1	15450.8	14206.8	12081.6	11167.2
17.5°	15604.6	15084.3	12913.4	10125.7	9309.6
20°	15352.7	14675.4	11266.9	8615.0	7820.0
22.5°	15071.7	14177.8	9667.5	7159.9	6025.9
25°	14769.5	13528.8	8402.3	5285.8	3715.3
27.5°	14420.3	12694.5	7215.7	3113.4	1896.2
30°	14050.7	11689.9	5835.1	1674.8	1151.4
32.5°	13677.9	10551.1	4128.9	1046.2	653.0
35°	13258.8	9347.2	2448.6	576.1	280.2
37.5°	12821.6	8243.8	1447.2	262.2	179.7
40°	12334.3	7235.3	930.0	174.2	176.5
42.5°	11863.4	6295.1	523.5	171.8	175.0
45°	11334.4	5266.1	240.9	174.2	173.4
47.5°	10787.3	4199.5	156.1	175.8	175.8
50°	10223.1	3002.8	155.4	179.7	175.0
52.5°	9627.4	1873.4	161.7	179.0	143.6
55°	8990.9	1084.6	164.8	149.1	66.7
57.5°	8331.7	639.6	166.4	85.5	37.7
60°	7644.1	353.9	160.1	63.6	35.3
62.5°	6935.4	168.7	126.3	59.7	34.5
65°	6195.3	114.6	86.3	54.9	35.3
67.5°	5427.0	88.7	68.3	51.8	36.1
70°	4657.9	65.9	62.0	51.8	35.3
72.5°	3876.3	44.7	51.8	52.6	35.3
75°	3083.5	26.7	35.3	46.3	36.9
77.5°	2297.9	16.5	27.5	47.9	44.7
80°	1546.8	14.1	29.0	44.7	35.3
82.5°	908.1	12.6	28.3	34.5	28.3
85°	384.6	10.2	18.8	28.3	23.5
87.5°	72.2	8.6	14.9	22.8	20.4
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)