

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: P731003

Luminaire Tested: **HBLED-LD5-36SE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731003
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-LD5-36SE-N-UNV-L835
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34298.0 lumens
Efficiency: N/A
Efficacy: 150.8 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

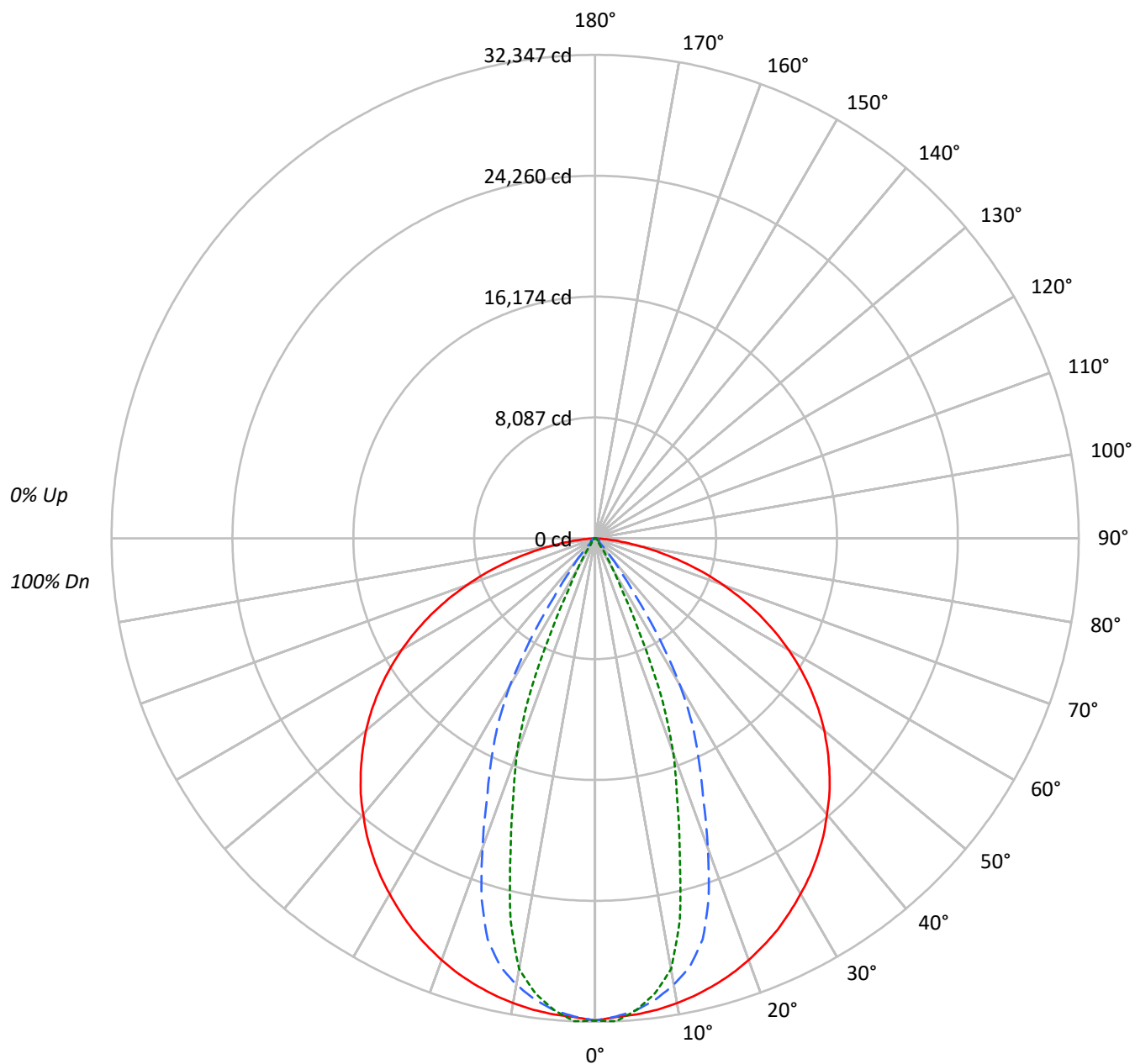
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731003

CATALOG NUMBER: HBLED-LD5-36SE-N-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P731003

CATALOG NUMBER: HBLED-LD5-36SE-N-UNV-L835

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102		109	106	103	101		102	100	98		98	96	95		95	93	92
2	105	98	93	89		102	97	92	88		93	89	86		90	87	84		87	85	82
3	98	90	84	79		96	88	83	78		86	81	77		83	79	76		81	77	74
4	92	82	76	70		90	81	75	70		79	73	69		77	72	68		75	71	67
5	86	76	69	64		84	75	68	63		73	67	63		71	66	62		70	65	62
6	81	70	63	58		79	70	63	58		68	62	58		66	61	57		65	60	57
7	76	66	58	54		75	65	58	53		63	57	53		62	57	53		61	56	52
8	72	61	54	49		71	61	54	49		59	53	49		58	53	49		57	52	49
9	68	57	51	46		67	57	50	46		56	50	46		55	49	46		54	49	45
10	65	54	47	43		64	53	47	43		53	47	43		52	46	43		51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	52101	52101	52101
5°	51823	51365	51342
10°	51790	49719	47975
15°	51717	46449	36511
20°	51597	37865	26281
25°	51465	29278	12946
30°	51238	21279	4199
35°	51117	9440	1080
40°	50849	3834	728
45°	50622	1076	775
50°	50227	763	860
55°	49504	907	367
60°	48282	1011	223
65°	46296	645	264
70°	43009	573	326
75°	37625	431	450
80°	28132	528	642
85°	13935	682	852



TEST NUMBER: P731003

CATALOG NUMBER: HBLED-LD5-36SE-N-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2994.6	8.7
10°-20°	7488.0	21.8
20°-30°	8110.7	23.6
30°-40°	6006.3	17.5
40°-50°	4326.1	12.6
50°-60°	2678.7	7.8
60°-70°	1647.3	4.8
70°-80°	868.4	2.5
80°-90°	177.7	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°	18593.4	54.2
0°-40°	24599.7	71.7
0°-60°	31604.5	92.1
0°-90°	34298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32269	32269	32269	32269	32269	
5°	31974	32093	31692	31715	31678	###
15°	30940	30221	27788	23631	21843	8734
25°	28889	26462	16435	10339	7267	13311
35°	25934	18283	4789	1127	548	16225
45°	22170	10300	471	341	339	17097
55°	17586	2122	322	292	130	15699
65°	12118	224	169	107	69	11956
75°	6031	52	69	91	72	6370
85°	752	20	37	55	46	###
90°	0	0	0	0	0	



TEST NUMBER: P731003

CATALOG NUMBER: HBLED-LD5-36SE-N-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32269.1	32269.1	32269.1	32269.1	32269.1
2.5°	32061.9	32266.1	32025.1	32204.7	32347.4
5°	31974.4	32092.6	31691.9	31714.9	31678.1
7.5°	31820.8	31793.2	31119.4	30824.6	30695.7
10°	31589.1	31406.4	30325.8	29710.2	29261.9
12.5°	31289.8	30881.4	29335.6	27378.3	26162.6
15°	30939.7	30221.3	27788.2	23631.3	21842.8
17.5°	30522.2	29504.4	25258.3	19805.7	18209.3
20°	30029.4	28704.6	22037.7	16850.7	15295.7
22.5°	29479.8	27731.4	18909.3	14004.6	11786.4
25°	28888.8	26461.9	16434.6	10338.8	7267.1
27.5°	28205.8	24830.1	14113.6	6089.7	3708.8
30°	27482.8	22865.1	11413.3	3275.8	2252.0
32.5°	26753.6	20637.7	8076.1	2046.3	1277.2
35°	25933.9	18282.9	4789.4	1126.8	548.1
37.5°	25078.7	16124.6	2830.7	512.8	351.6
40°	24125.5	14152.1	1819.0	340.7	345.3
42.5°	23204.5	12313.0	1024.0	336.1	342.4
45°	22169.7	10300.4	471.3	340.7	339.2
47.5°	21099.8	8214.2	305.4	343.8	343.8
50°	19996.2	5873.3	303.9	351.6	342.4
52.5°	18831.0	3664.3	316.3	350.1	280.9
55°	17586.0	2121.5	322.3	291.6	130.5
57.5°	16296.5	1251.1	325.4	167.3	73.7
60°	14951.7	692.3	313.1	124.3	69.1
62.5°	13565.5	330.0	247.1	116.7	67.5
65°	12117.9	224.1	168.8	107.4	69.1
67.5°	10615.2	173.4	133.5	101.3	70.6
70°	9110.7	128.9	121.3	101.3	69.1
72.5°	7581.8	87.5	101.3	102.8	69.1
75°	6031.3	52.2	69.1	90.6	72.1
77.5°	4494.7	32.2	53.7	93.6	87.5
80°	3025.6	27.6	56.8	87.5	69.1
82.5°	1776.2	24.6	55.3	67.5	55.3
85°	752.2	20.0	36.8	55.3	46.0
87.5°	141.2	16.9	29.2	44.5	39.9
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)