

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: P731013

Luminaire Tested: **HBLED-LD5-36SE-W-AI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-AI-UNV-L740
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33857.0 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

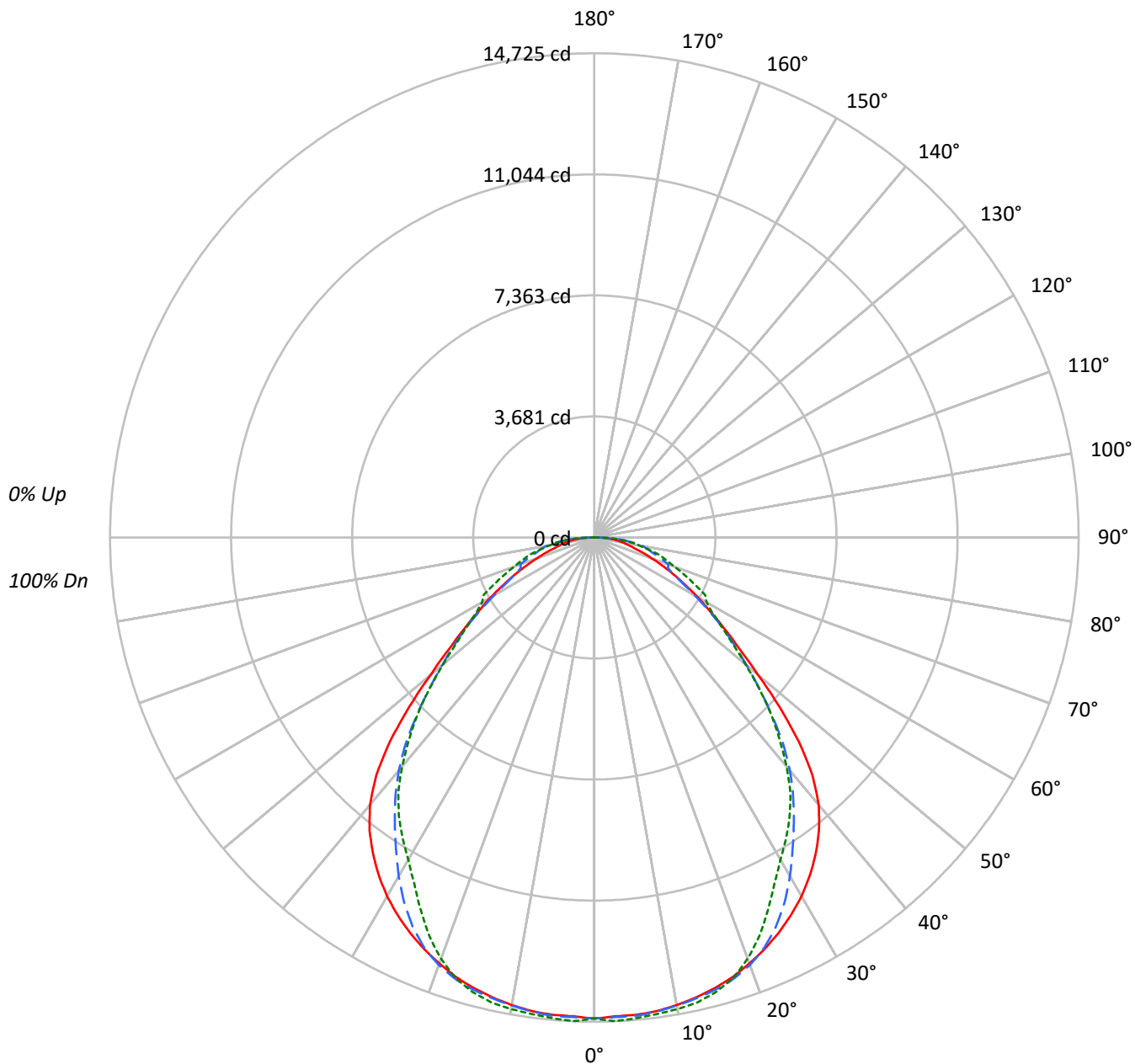
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23617	23617	23617
5°	23616	23667	23782
10°	23674	23704	23878
15°	23711	23800	23916
20°	23687	23775	23422
25°	23627	23273	22261
30°	23488	22175	21094
35°	23134	20842	20408
40°	22361	19487	19166
45°	20098	17401	17337
50°	16301	15157	15053
55°	13535	13284	13279
60°	11719	11377	12719
65°	10157	10093	12821
70°	8757	11322	12221
75°	7853	11604	12740
80°	8163	13660	12782
85°	9266	15743	14605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1392.7	4.1
10°-20°	4022.2	11.9
20°-30°	5973.9	17.6
30°-40°	6782.0	20.0
40°-50°	6062.9	17.9
50°-60°	4191.9	12.4
60°-70°	2766.0	8.2
70°-80°	1866.1	5.5
80°-90°	799.3	2.4
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°	11388.8	33.6
0°-40°	18170.9	53.7
0°-60°	28425.6	84.0
0°-90°	33857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14627	14627	14627	14627	14627	
5°	14571	14660	14602	14662	14674	###
15°	14185	14253	14238	14318	14308	4004
25°	13262	13388	13064	12674	12496	6111
35°	11737	11490	10574	10420	10354	7319
45°	8802	8056	7621	7679	7593	6694
55°	4808	4389	4719	4653	4717	4367
65°	2658	2360	2642	3089	3356	2653
75°	1259	1584	1860	1988	2042	1375
85°	500	696	850	855	788	522
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14627.3	14627.3	14627.3	14627.3	14627.3
2.5°	14577.6	14668.7	14600.8	14663.7	14724.9
5°	14570.9	14660.4	14602.4	14662.0	14673.7
7.5°	14529.5	14612.3	14544.4	14602.4	14615.6
10°	14440.0	14537.8	14458.2	14547.7	14564.4
12.5°	14324.2	14423.6	14353.9	14476.5	14483.2
15°	14185.0	14252.9	14238.1	14317.5	14307.6
17.5°	14009.4	14087.4	14075.7	14095.5	14049.2
20°	13785.8	13873.6	13837.1	13746.1	13631.8
22.5°	13545.7	13651.6	13507.6	13277.4	13116.6
25°	13262.4	13388.3	13063.7	12674.5	12495.5
27.5°	12949.3	13062.0	12522.0	12045.1	11859.5
30°	12598.3	12646.2	11894.2	11440.4	11314.5
32.5°	12192.4	12122.9	11223.4	10923.6	10850.8
35°	11737.0	11490.1	10574.2	10420.1	10353.8
37.5°	11223.4	10771.3	9933.2	9862.0	9792.3
40°	10609.0	9941.4	9245.8	9199.5	9093.4
42.5°	9815.6	9038.7	8482.1	8427.5	8333.1
45°	8801.9	8056.5	7620.9	7678.9	7592.7
47.5°	7635.7	7071.0	6794.4	6953.4	6794.4
50°	6489.5	6110.3	6034.1	6178.2	5992.7
52.5°	5550.4	5209.3	5366.7	5391.4	5280.5
55°	4808.3	4389.4	4719.0	4652.7	4717.3
57.5°	4162.5	3693.6	4099.5	4023.3	4245.2
60°	3629.1	3102.4	3523.1	3506.5	3938.7
62.5°	3105.7	2685.0	3022.8	3266.3	3798.0
65°	2658.5	2360.3	2641.9	3089.1	3355.8
67.5°	2229.4	2116.8	2416.6	2665.0	2956.7
70°	1855.0	1913.0	2398.3	2352.0	2588.8
72.5°	1540.4	1737.6	2116.8	2125.1	2292.4
75°	1258.9	1583.6	1860.2	1987.7	2042.3
77.5°	1046.8	1436.1	1679.6	1724.3	1671.3
80°	877.9	1265.4	1469.1	1449.3	1374.7
82.5°	708.8	959.1	1157.9	1176.1	1088.2
85°	500.2	695.7	849.8	854.7	788.4
87.5°	268.3	429.0	515.2	530.0	490.2
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)