

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: P731028

Luminaire Tested: **HBLED-LD5-36SE-W-CL-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-CL-WG-UNV-L840
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32501.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

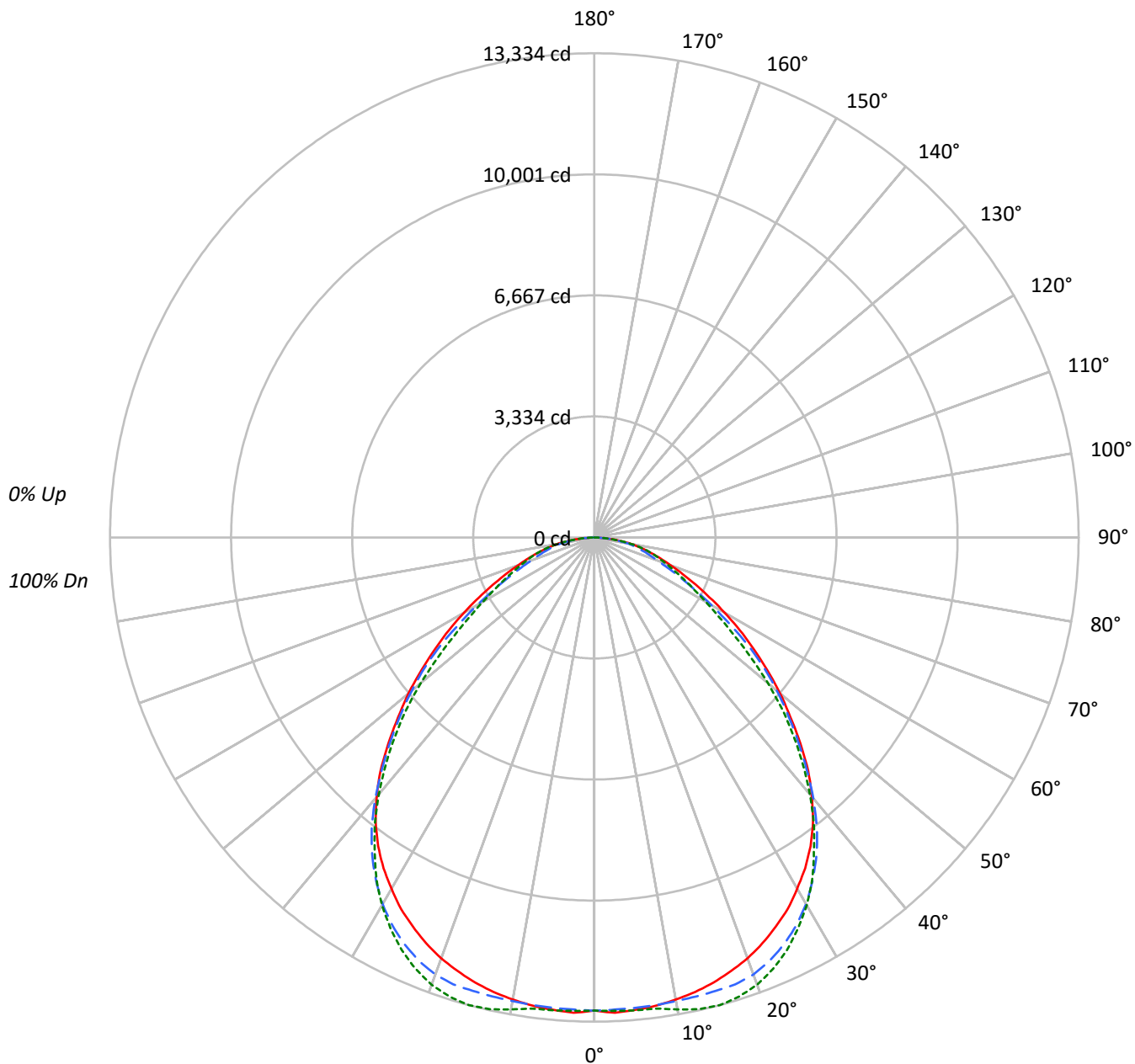
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21041	21041	21041
5°	21165	21078	21182
10°	21184	21256	21636
15°	21210	21609	22289
20°	21196	22005	22519
25°	21067	22025	22348
30°	20825	21733	21802
35°	20453	21029	20777
40°	19646	19766	19455
45°	18305	18113	17745
50°	16760	16490	15645
55°	15054	14496	13228
60°	13351	11994	11419
65°	11763	9966	10363
70°	10521	8648	9870
75°	9855	8409	9981
80°	9595	8501	9501
85°	7658	6727	6973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1241.4	3.8
10°-20°	3656.7	11.3
20°-30°	5625.4	17.3
30°-40°	6565.2	20.2
40°-50°	6100.8	18.8
50°-60°	4522.1	13.9
60°-70°	2764.4	8.5
70°-80°	1574.6	4.8
80°-90°	450.3	1.4
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°	10523.5	32.4
0°-40°	17088.7	52.6
0°-60°	27711.6	85.3
0°-90°	32501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13032	13032	13032	13032	13032	
5°	13059	12998	13005	12995	13069	###
15°	12689	12682	12928	13183	13334	3582
25°	11825	11916	12363	12467	12544	5447
35°	10376	10457	10669	10582	10541	6465
45°	8017	8064	7933	7808	7772	6177
55°	5348	5214	5150	4783	4699	4799
65°	3079	2797	2608	2679	2712	3081
75°	1580	1482	1348	1536	1600	1691
85°	413	403	363	376	376	477
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13032.0	13032.0	13032.0	13032.0	13032.0
2.5°	13102.6	13028.6	13015.1	12984.9	13052.1
5°	13058.9	12998.3	13005.0	12995.0	13069.0
7.5°	13008.4	12964.8	12991.6	12988.2	13085.8
10°	12921.1	12897.5	12964.8	13038.7	13196.7
12.5°	12823.5	12800.1	12948.0	13136.1	13307.6
15°	12689.1	12682.3	12927.8	13183.2	13334.5
17.5°	12521.1	12531.1	12904.2	13122.7	13257.1
20°	12336.2	12353.0	12806.8	12984.9	13106.0
22.5°	12097.5	12154.7	12618.5	12766.4	12860.5
25°	11825.2	11915.9	12363.1	12467.3	12544.5
27.5°	11532.8	11623.5	12047.1	12100.8	12144.6
30°	11169.8	11297.5	11657.1	11663.9	11694.1
32.5°	10800.0	10914.3	11189.9	11159.7	11166.3
35°	10376.5	10457.1	10668.9	10581.6	10541.2
37.5°	9889.1	9932.8	10067.2	9936.2	9929.4
40°	9321.0	9378.2	9378.2	9196.7	9230.3
42.5°	8716.0	8736.1	8652.2	8480.7	8507.5
45°	8016.8	8063.8	7932.7	7808.4	7771.5
47.5°	7324.3	7371.4	7233.6	7089.1	7025.3
50°	6672.3	6648.7	6564.8	6319.3	6228.6
52.5°	5996.7	5922.7	5889.1	5529.5	5425.2
55°	5347.9	5213.5	5149.6	4783.2	4699.1
57.5°	4746.2	4504.3	4383.3	4097.6	4063.8
60°	4134.5	3862.2	3714.3	3529.4	3536.1
62.5°	3579.9	3294.1	3116.0	3062.3	3085.7
65°	3079.0	2796.6	2608.5	2679.0	2712.5
67.5°	2625.2	2393.3	2181.5	2346.2	2379.8
70°	2228.6	2043.7	1832.0	2074.0	2090.8
72.5°	1899.1	1747.9	1569.7	1798.3	1835.2
75°	1579.8	1482.4	1347.9	1536.2	1600.0
77.5°	1300.8	1223.6	1146.2	1260.6	1331.1
80°	1031.9	954.7	914.3	974.7	1021.8
82.5°	729.4	679.1	638.7	682.3	705.9
85°	413.4	403.3	363.1	376.4	376.4
87.5°	94.1	107.5	121.0	110.9	94.1
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)