

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: P731140

Luminaire Tested: **HBLED-LD5-60HE-W-AI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731140
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-LD5-60HE-W-AI-UNV-L750
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58854.0 lumens
Efficiency: N/A
Efficacy: 165.8 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

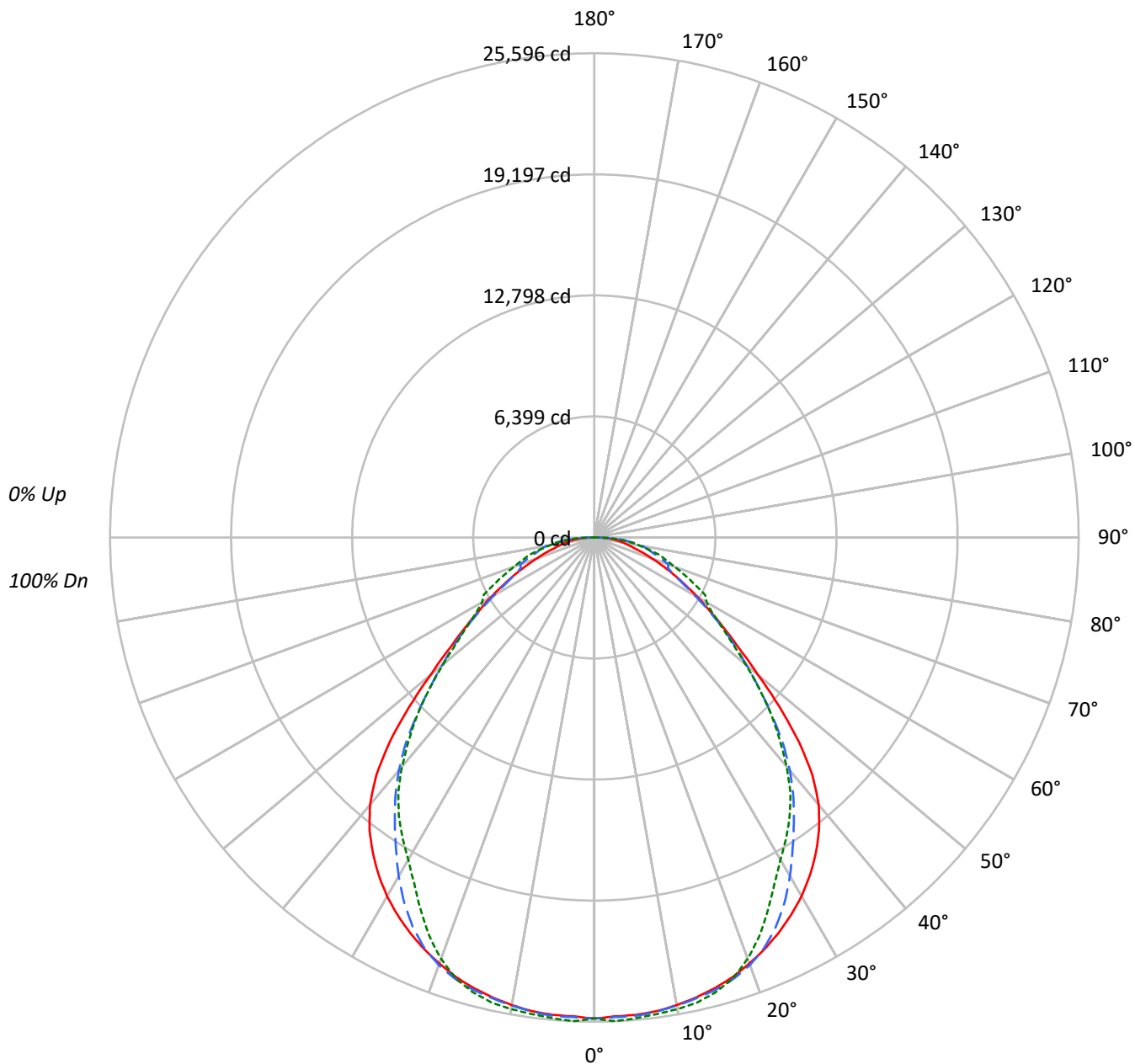
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731140

CATALOG NUMBER: HBLED-LD5-60HE-W-AI-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P731140

CATALOG NUMBER: HBLED-LD5-60HE-W-AI-UNV-L750

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°	41054	41054	41054
5°	41052	41140	41341
10°	41153	41205	41508
15°	41217	41371	41573
20°	41175	41328	40715
25°	41071	40456	38696
30°	40829	38547	36669
35°	40214	36230	35475
40°	38869	33875	33317
45°	34936	30249	30137
50°	28336	26347	26166
55°	23528	23091	23083
60°	20371	19776	22110
65°	17655	17545	22287
70°	15222	19681	21244
75°	13651	20171	22147
80°	14190	23745	22220
85°	16106	27366	25389



TEST NUMBER: P731140

CATALOG NUMBER: HBLED-LD5-60HE-W-AI-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2421.0	4.1
10°-20°	6991.9	11.9
20°-30°	10384.5	17.6
30°-40°	11789.3	20.0
40°-50°	10539.1	17.9
50°-60°	7286.8	12.4
60°-70°	4808.2	8.2
70°-80°	3243.9	5.5
80°-90°	1389.4	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°	19797.3	33.6
0°-40°	31586.6	53.7
0°-60°	49412.5	84.0
0°-90°	58854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25427	25427	25427	25427	25427	
5°	25329	25484	25384	25487	25507	###
15°	24658	24776	24750	24888	24871	6960
25°	23054	23273	22709	22032	21721	10623
35°	20402	19973	18381	18113	17998	12723
45°	15300	14005	13247	13348	13198	11636
55°	8358	7630	8203	8088	8200	7592
65°	4621	4103	4592	5370	5834	4612
75°	2188	2753	3234	3455	3550	2390
85°	869	1209	1477	1486	1370	907
90°	0	0	0	0	0	



TEST NUMBER: P731140

CATALOG NUMBER: HBLED-LD5-60HE-W-AI-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25426.8	25426.8	25426.8	25426.8	25426.8
2.5°	25340.4	25498.8	25380.7	25490.1	25596.5
5°	25328.8	25484.3	25383.5	25487.1	25507.4
7.5°	25256.8	25400.7	25282.7	25383.5	25406.5
10°	25101.3	25271.3	25132.9	25288.5	25317.4
12.5°	24899.9	25072.7	24951.6	25164.6	25176.3
15°	24657.9	24776.0	24750.2	24888.2	24871.0
17.5°	24352.7	24488.2	24468.0	24502.4	24421.8
20°	23964.1	24116.6	24053.2	23894.9	23696.3
22.5°	23546.6	23730.8	23480.5	23080.2	22800.8
25°	23054.1	23273.0	22708.8	22032.2	21721.1
27.5°	22510.0	22705.8	21767.2	20938.0	20615.6
30°	21899.7	21983.0	20675.8	19887.0	19668.1
32.5°	21194.2	21073.3	19509.8	18988.7	18862.0
35°	20402.5	19973.4	18381.2	18113.4	17998.1
37.5°	19509.8	18723.9	17267.0	17143.2	17022.0
40°	18441.7	17281.2	16072.1	15991.5	15807.1
42.5°	17062.6	15712.1	14744.6	14649.6	14485.4
45°	15300.4	14004.6	13247.4	13348.3	13198.5
47.5°	13273.3	12291.6	11810.8	12087.2	11810.8
50°	11280.8	10621.7	10489.2	10739.7	10417.2
52.5°	9648.4	9055.3	9328.9	9372.0	9179.2
55°	8358.4	7630.1	8203.1	8087.8	8200.1
57.5°	7235.6	6420.7	7126.2	6993.7	7379.5
60°	6308.4	5392.9	6124.3	6095.4	6846.8
62.5°	5398.7	4667.4	5254.6	5677.9	6602.0
65°	4621.3	4102.9	4592.4	5369.9	5833.5
67.5°	3875.5	3679.6	4200.7	4632.7	5139.6
70°	3224.6	3325.5	4169.1	4088.5	4500.2
72.5°	2677.7	3020.5	3679.6	3694.1	3984.9
75°	2188.3	2752.7	3233.5	3455.2	3550.2
77.5°	1819.7	2496.3	2919.6	2997.4	2905.2
80°	1526.1	2199.7	2553.8	2519.4	2389.7
82.5°	1232.2	1667.2	2012.7	2044.4	1891.6
85°	869.4	1209.4	1477.2	1485.8	1370.5
87.5°	466.4	745.8	895.5	921.4	852.2
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)