

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: P#

Luminaire Tested: **HBLED-LD5-60HE-W-CLI-UNV-L740-ED4-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-CLI-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

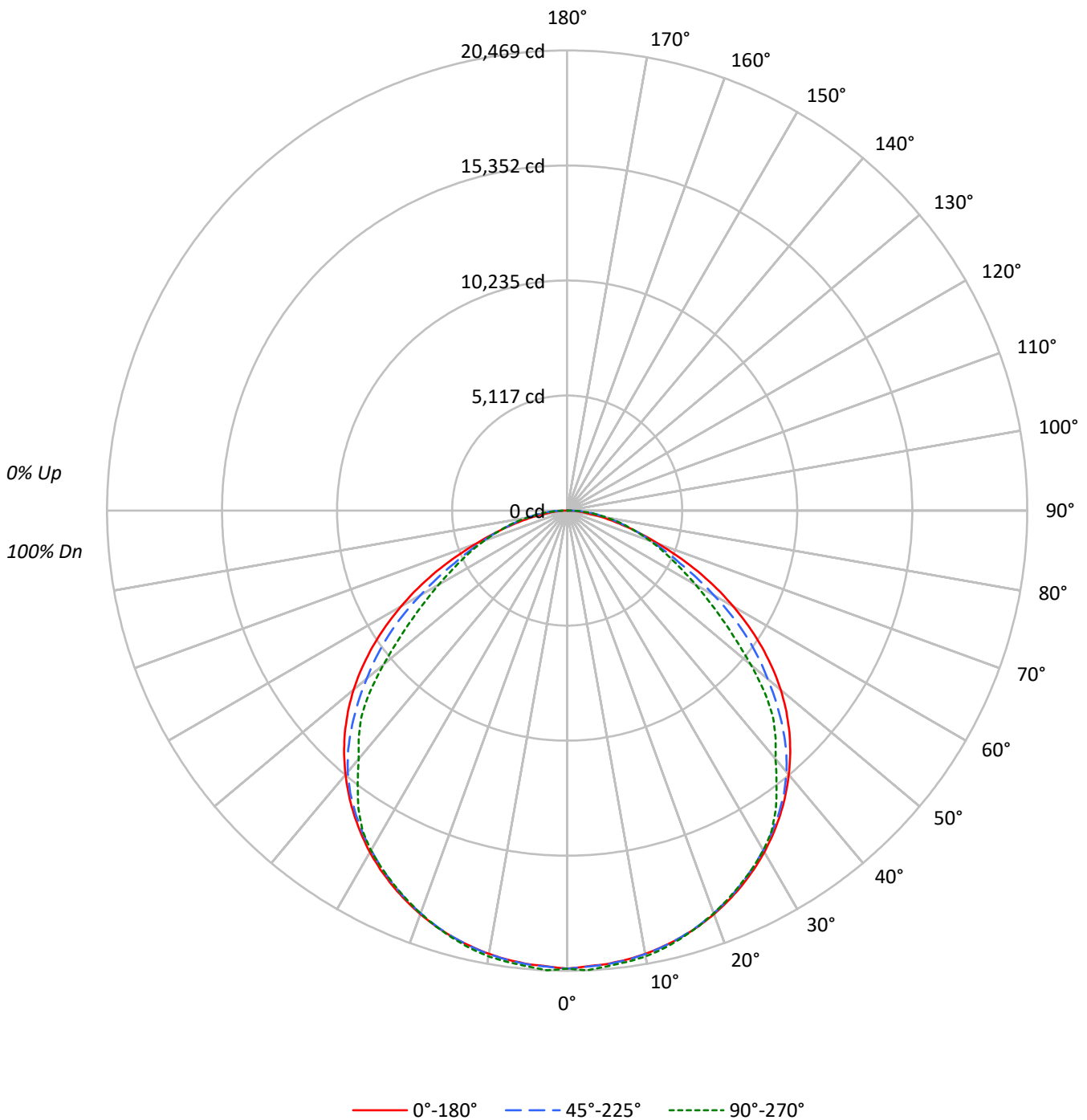
Lumens per Lamp: N/A
Luminaire Lumens: 54744.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 369
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: P#
CATALOG NUMBER: HBLED-LD5-60HE-W-CLI-UNV-L740-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-CLI-UNV-L740-ED4-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27416	27416	27416
5°	27342	27362	27484
10°	27357	27371	27515
15°	27361	27357	27422
20°	27354	27291	27298
25°	27312	27210	27178
30°	27268	27104	27119
35°	27140	26972	26590
40°	26947	26672	25327
45°	26605	25753	24627
50°	25965	24382	22304
55°	24783	22803	19722
60°	22999	20346	17786
65°	20443	17616	16354
70°	16965	15743	15416
75°	13721	14407	14586
80°	10898	13779	13722
85°	8534	14803	14122



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-CLI-UNV-L740-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1932.4	3.5
10°-20°	5558.2	10.2
20°-30°	8475.3	15.5
30°-40°	10253.9	18.7
40°-50°	10386.3	19.0
50°-60°	8584.5	15.7
60°-70°	5669.9	10.4
70°-80°	2956.5	5.4
80°-90°	926.9	1.7
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°	15965.9	29.2
0°-40°	26219.9	47.9
0°-60°	45190.7	82.5
0°-90°	54744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	54744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20376	20376	20376	20376	20376	
5°	20244	20366	20259	20347	20349	###
15°	19642	19742	19640	19701	19686	5547
25°	18397	18470	18329	18375	18307	8483
35°	16523	16545	16421	16399	16188	10335
45°	13982	13945	13534	13114	12942	10766
55°	10565	10408	9721	8777	8407	9416
65°	6421	6235	5533	5174	5137	6342
75°	2639	2686	2771	2808	2806	2875
85°	553	712	959	952	915	671
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-CLI-UNV-L740-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20376.0	20376.0	20376.0	20376.0	20376.0
2.5°	20290.4	20410.3	20310.0	20398.0	20469.0
5°	20243.9	20366.2	20258.6	20346.7	20349.1
7.5°	20153.4	20275.7	20165.7	20253.7	20251.3
10°	20023.8	20138.8	20033.6	20138.8	20138.8
12.5°	19847.7	19960.2	19857.5	19955.3	19940.6
15°	19642.2	19742.5	19639.7	19700.9	19686.2
17.5°	19400.0	19490.5	19375.6	19426.9	19397.6
20°	19104.1	19187.2	19060.0	19126.1	19064.9
22.5°	18771.4	18849.7	18720.0	18768.9	18700.4
25°	18397.1	18470.5	18328.6	18375.1	18306.6
27.5°	17993.5	18059.6	17900.6	17956.8	17903.0
30°	17550.8	17582.6	17445.6	17519.0	17455.4
32.5°	17056.7	17076.2	16956.4	17022.4	16914.8
35°	16523.4	16545.4	16420.7	16398.7	16188.3
37.5°	15953.5	15963.3	15845.8	15647.7	15300.4
40°	15341.9	15337.1	15185.4	14728.0	14419.8
42.5°	14688.8	14686.4	14419.8	13898.7	13722.6
45°	13981.9	13945.2	13534.3	13113.6	12942.3
47.5°	13223.6	13184.5	12609.7	12274.5	11885.6
50°	12404.2	12335.7	11648.3	11190.9	10655.2
52.5°	11521.1	11416.0	10716.4	9977.6	9471.3
55°	10564.7	10408.2	9720.8	8776.6	8407.3
57.5°	9569.1	9336.8	8669.0	7749.2	7448.4
60°	8546.7	8287.4	7560.9	6805.1	6609.4
62.5°	7494.9	7238.0	6496.8	5926.9	5819.3
65°	6421.0	6235.1	5533.1	5173.5	5136.8
67.5°	5320.3	5254.2	4718.5	4535.1	4520.4
70°	4312.5	4300.2	4001.8	3908.9	3918.7
72.5°	3446.6	3431.9	3387.9	3341.4	3343.8
75°	2639.3	2685.8	2771.4	2808.1	2805.7
77.5°	1969.1	2064.5	2245.5	2318.9	2306.7
80°	1406.5	1548.4	1778.3	1846.8	1771.0
82.5°	936.9	1086.1	1357.6	1367.4	1306.2
85°	552.8	711.8	958.9	951.5	914.8
87.5°	274.0	428.1	574.8	550.4	525.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)