

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-LD5-60SE-W-WG-UNV-L840-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-WG-UNV-L840-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

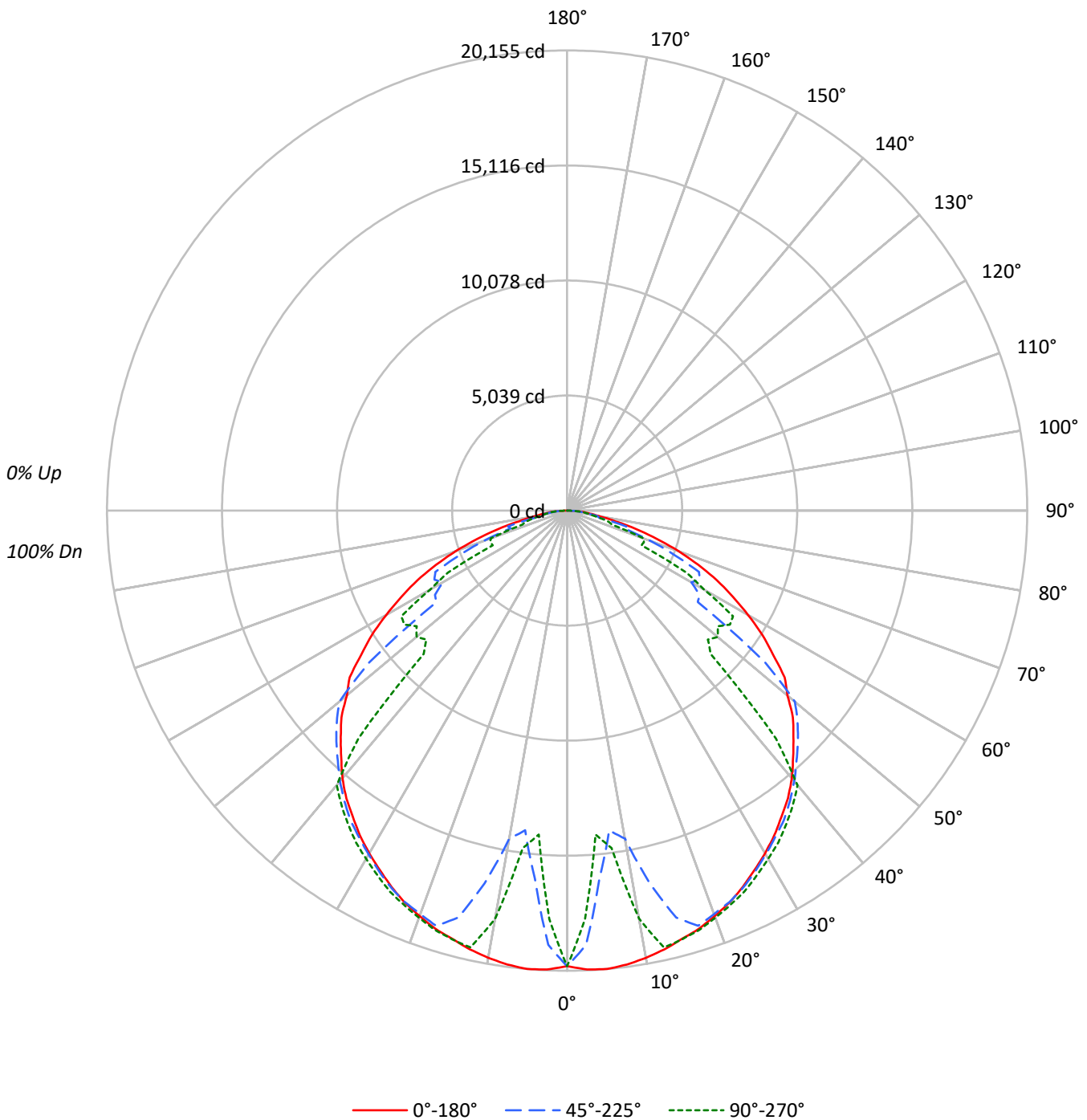
Lumens per Lamp: N/A
Luminaire Lumens: 52864.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
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-LD5-60SE-W-WG-UNV-L840-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-WG-UNV-L840-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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26848	26848	26848
5°	27222	21869	19233
10°	27175	19944	24805
15°	27054	25705	27078
20°	27055	26932	27171
25°	27006	27066	27314
30°	26928	27017	27365
35°	26885	27183	27501
40°	26889	27182	27572
45°	26678	27200	16903
50°	26376	27255	18015
55°	25820	16388	20418
60°	24630	16893	18697
65°	23078	20282	11440
70°	20378	15366	14023
75°	16237	13967	9725
80°	11186	10095	8357
85°	10718	9320	8840



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-WG-UNV-L840-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1595.7	3.0
10°-20°	4999.0	9.5
20°-30°	8224.4	15.6
30°-40°	10341.0	19.6
40°-50°	10142.0	19.2
50°-60°	8403.1	15.9
60°-70°	5926.9	11.2
70°-80°	2585.9	4.9
80°-90°	646.0	1.2
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°	14819.0	28.0
0°-40°	25160.0	47.6
0°-60°	43705.2	82.7
0°-90°	52864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	52864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19954	19954	19954	19954	19954	
5°	20155	18759	16192	14681	14240	###
15°	19422	13488	18454	19499	19439	5492
25°	18191	16645	18232	18353	18399	8385
35°	16368	16359	16550	16659	16743	10255
45°	14020	14063	14295	12660	8883	10822
55°	11007	11367	6986	7943	8704	9848
65°	7249	7676	6371	4901	3593	7127
75°	3123	3061	2687	1756	1871	3349
85°	694	618	604	577	573	720
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-WG-UNV-L840-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19954.4	19954.4	19954.4	19954.4	19954.4
2.5°	20119.1	19701.5	19038.2	18203.1	17907.2
5°	20154.9	18759.0	16191.7	14681.3	14239.9
7.5°	20052.3	17048.2	14115.8	14433.1	14900.8
10°	19890.0	15545.0	14597.8	17174.7	18155.4
12.5°	19682.4	14208.9	16723.7	19400.9	19596.5
15°	19422.4	13488.3	18453.6	19498.7	19439.1
17.5°	19202.8	13910.6	19074.0	19303.1	19260.1
20°	18895.0	14752.9	18809.1	18992.9	18976.2
22.5°	18584.9	15750.2	18558.6	18689.8	18689.8
25°	18191.2	16645.0	18231.7	18353.4	18398.7
27.5°	17759.3	17160.4	17823.7	17923.9	18005.0
30°	17332.2	17234.4	17389.4	17518.3	17613.7
32.5°	16881.2	16843.0	16964.7	17100.7	17222.4
35°	16368.2	16358.7	16549.6	16659.3	16742.8
37.5°	15886.2	15852.8	16029.4	16182.1	16246.5
40°	15308.8	15308.8	15475.8	15630.9	15697.7
42.5°	14650.3	14743.3	14872.2	15032.0	13538.4
45°	14020.4	14063.3	14294.8	12660.3	8883.2
47.5°	13414.3	13469.2	13688.7	8138.8	8360.7
50°	12600.7	12848.8	13020.6	8114.9	8606.4
52.5°	12006.5	12113.9	10930.4	8033.8	8310.6
55°	11006.8	11367.1	6986.3	7943.1	8704.3
57.5°	10152.6	10415.1	6869.4	8138.8	8611.2
60°	9152.8	9553.7	6277.7	7852.5	6948.1
62.5°	8193.7	8575.4	6554.4	6179.8	5884.0
65°	7248.8	7675.9	6370.7	4900.9	3593.4
67.5°	6213.2	5814.8	5082.3	3452.6	3633.9
70°	5180.1	4061.0	3905.9	3860.6	3564.7
72.5°	4118.3	2963.5	2593.6	2896.7	2073.5
75°	3123.3	3061.3	2686.7	1756.1	1870.7
77.5°	2166.5	2209.5	1438.8	1713.2	1422.1
80°	1443.6	1250.3	1302.8	1092.8	1078.5
82.5°	999.8	1021.2	856.6	830.3	842.3
85°	694.3	618.0	603.7	577.4	572.6
87.5°	231.4	269.6	250.5	226.7	241.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)