

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-LD5-12SE-W-A-UNV-L835-ED1-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-A-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

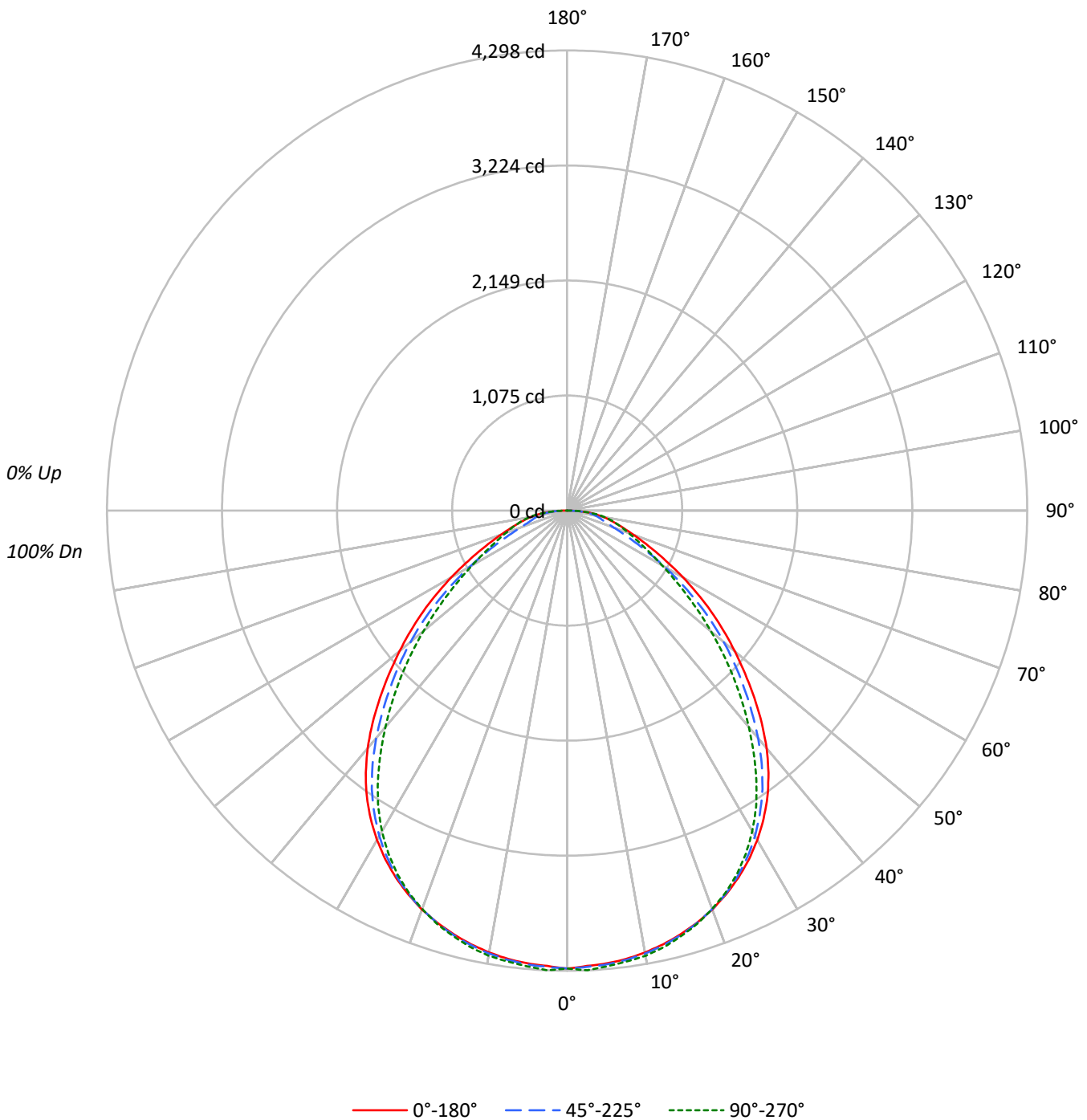
Lumens per Lamp: N/A
Luminaire Lumens: 9825.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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-LD5-12SE-W-A-UNV-L835-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-A-UNV-L835-ED1-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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5755	5755	5755
5°	5734	5747	5771
10°	5726	5739	5768
15°	5707	5718	5732
20°	5677	5673	5669
25°	5616	5596	5565
30°	5519	5452	5372
35°	5358	5223	5063
40°	5092	4873	4639
45°	4704	4441	4172
50°	4276	3999	3670
55°	3845	3462	3173
60°	3364	2830	2753
65°	2901	2225	2485
70°	2586	1816	2395
75°	2478	1773	2503
80°	2679	2097	2788
85°	3009	2524	3038



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-A-UNV-L835-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.4	4.1
10°-20°	1160.1	11.8
20°-30°	1735.4	17.7
30°-40°	1979.9	20.2
40°-50°	1802.3	18.3
50°-60°	1323.4	13.5
60°-70°	781.4	8.0
70°-80°	447.8	4.6
80°-90°	189.3	1.9
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°	3300.8	33.6
0°-40°	5280.7	53.7
0°-60°	8406.4	85.6
0°-90°	9825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4277	4277	4277	4277	4277	
5°	4246	4272	4255	4272	4273	404
15°	4097	4120	4105	4120	4115	1156
25°	3783	3796	3770	3768	3748	1741
35°	3262	3246	3180	3126	3082	2032
45°	2472	2458	2334	2229	2193	1905
55°	1639	1563	1476	1369	1352	1466
65°	911	795	699	748	780	917
75°	477	408	341	445	481	514
85°	195	180	164	193	197	204
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-A-UNV-L835-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4277.0	4277.0	4277.0	4277.0	4277.0
2.5°	4257.2	4281.8	4266.4	4283.3	4297.7
5°	4245.6	4272.2	4255.3	4272.2	4272.6
7.5°	4224.4	4249.0	4232.6	4250.9	4249.0
10°	4191.1	4215.7	4200.8	4220.6	4222.0
12.5°	4148.7	4172.3	4156.9	4179.6	4175.7
15°	4097.1	4119.7	4105.3	4119.7	4114.9
17.5°	4036.3	4057.0	4038.2	4054.1	4045.9
20°	3964.9	3982.3	3962.0	3977.0	3959.1
22.5°	3879.5	3895.0	3873.7	3881.9	3863.6
25°	3782.6	3796.1	3769.6	3768.1	3748.3
27.5°	3674.5	3681.8	3648.0	3636.4	3613.8
30°	3552.0	3553.9	3509.1	3487.4	3458.0
32.5°	3414.5	3409.7	3352.3	3320.0	3283.8
35°	3262.1	3246.2	3180.1	3125.6	3082.2
37.5°	3089.9	3064.8	2985.7	2905.2	2863.7
40°	2898.9	2869.5	2774.5	2674.6	2641.3
42.5°	2691.0	2665.9	2554.0	2449.9	2417.1
45°	2472.0	2457.6	2334.1	2229.4	2192.8
47.5°	2253.1	2242.4	2121.9	2015.3	1970.9
50°	2042.7	2019.6	1910.6	1793.9	1753.3
52.5°	1838.7	1791.4	1695.5	1575.8	1545.9
55°	1639.0	1563.3	1476.0	1368.9	1352.5
57.5°	1441.3	1343.3	1258.4	1178.4	1177.9
60°	1250.2	1138.3	1051.5	1009.6	1023.1
62.5°	1071.3	956.5	862.4	865.3	889.9
65°	911.2	795.4	698.9	747.6	780.4
67.5°	773.7	663.2	565.3	656.0	687.3
70°	657.4	557.6	461.6	575.0	608.7
72.5°	559.5	475.6	389.3	507.4	541.7
75°	476.6	408.5	341.0	444.7	481.4
77.5°	409.0	348.7	305.8	384.9	423.0
80°	345.8	292.8	270.6	327.0	359.8
82.5°	274.0	237.3	224.3	265.8	282.7
85°	194.9	179.9	163.5	192.9	196.8
87.5°	107.1	110.9	91.6	110.9	111.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)