

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-LD5-30SE-N-CLWG-UNV-L740-ED3-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-CLWG-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

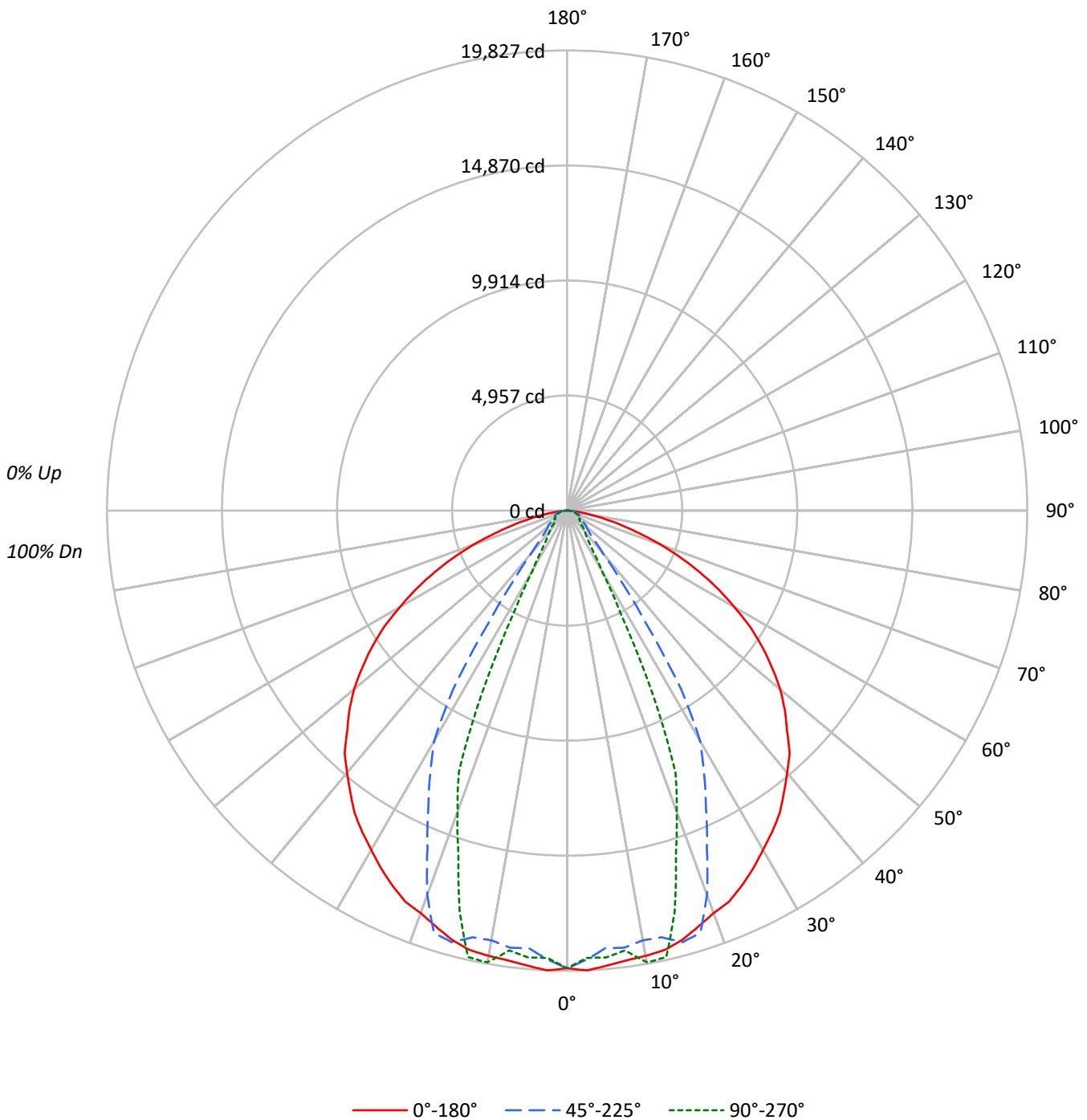
Lumens per Lamp: N/A
Luminaire Lumens: 26510.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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-LD5-30SE-N-CLWG-UNV-L740-ED3-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CLWG-UNV-L740-ED3-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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26532	26532	26532
5°	26576	25564	26102
10°	26615	25687	27005
15°	26674	26813	24921
20°	26422	25219	19781
25°	26460	21024	12921
30°	26222	17811	4642
35°	26195	9648	2611
40°	25898	4206	2045
45°	25498	2600	1603
50°	25101	2264	1513
55°	24114	1964	1481
60°	22373	1760	1591
65°	20110	1989	1739
70°	16866	2138	1793
75°	12609	2439	1941
80°	7919	2832	2214
85°	5272	3549	3242



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CLWG-UNV-L740-ED3-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1827.7	6.9
10°-20°	5161.1	19.5
20°-30°	6319.9	23.8
30°-40°	4963.0	18.7
40°-50°	3680.4	13.9
50°-60°	2240.6	8.5
60°-70°	1342.1	5.1
70°-80°	736.4	2.8
80°-90°	238.8	0.9
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°	13308.7	50.2
0°-40°	18271.7	68.9
0°-60°	24192.7	91.3
0°-90°	26510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19720	19720	19720	19720	19720	
5°	19677	19141	18927	19136	19326	###
15°	19149	18624	19249	18472	17891	5392
25°	17823	17879	14162	11108	8704	8205
35°	15948	14507	5874	1966	1590	9951
45°	13400	9622	1366	1035	843	10362
55°	10280	2651	837	708	631	9148
65°	6317	781	625	587	546	6241
75°	2425	493	469	408	373	2626
85°	342	268	230	211	210	417
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CLWG-UNV-L740-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19719.5	19719.5	19719.5	19719.5	19719.5
2.5°	19827.1	19560.0	19355.3	19241.0	19287.5
5°	19676.9	19141.4	18927.4	19136.0	19326.1
7.5°	19546.7	18750.6	18992.5	19011.1	19110.8
10°	19480.2	18713.4	18801.1	19214.5	19766.0
12.5°	19392.5	18799.8	18830.4	19393.9	19704.8
15°	19149.3	18624.4	19249.0	18471.6	17890.8
17.5°	18794.5	18215.1	19073.6	16363.8	15574.4
20°	18452.9	17769.8	17613.0	14576.3	13814.8
22.5°	18232.3	17702.1	15733.8	12988.2	12201.4
25°	17823.0	17878.8	14161.7	11107.6	8703.5
27.5°	17372.5	17462.9	12771.5	7407.8	4986.3
30°	16878.1	16981.8	11463.8	4377.7	2987.6
32.5°	16430.2	15845.5	9155.4	2731.1	2077.2
35°	15947.8	14507.2	5874.1	1965.6	1589.5
37.5°	15340.5	13101.1	3718.5	1554.9	1334.3
40°	14745.1	11838.6	2394.8	1327.7	1164.2
42.5°	14188.2	10798.0	1742.3	1160.2	1051.2
45°	13400.1	9621.8	1366.2	1035.3	842.6
47.5°	12718.4	8242.4	1194.8	875.8	727.0
50°	11991.4	6302.0	1081.8	778.8	723.0
52.5°	11128.9	4122.5	999.4	745.6	675.1
55°	10279.7	2651.3	837.3	708.3	631.3
57.5°	9362.7	1681.2	738.9	687.1	659.2
60°	8314.1	1133.6	653.9	651.2	591.4
62.5°	7344.0	931.6	631.3	624.6	559.5
65°	6316.7	781.4	624.6	587.4	546.2
67.5°	5290.7	669.8	564.8	536.9	501.0
70°	4287.3	612.7	543.6	531.6	455.8
72.5°	3256.0	505.0	482.4	450.5	378.8
75°	2425.4	493.1	469.1	408.0	373.4
77.5°	1641.3	454.5	426.6	365.5	337.6
80°	1022.0	417.3	365.5	320.3	285.7
82.5°	607.3	348.2	300.4	264.5	241.9
85°	341.5	268.5	229.9	211.3	210.0
87.5°	73.1	97.0	77.1	73.1	51.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)