

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-LD5-30HE-W-WG-UNV-L740-ED2-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-LD5-30HE-W-WG-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

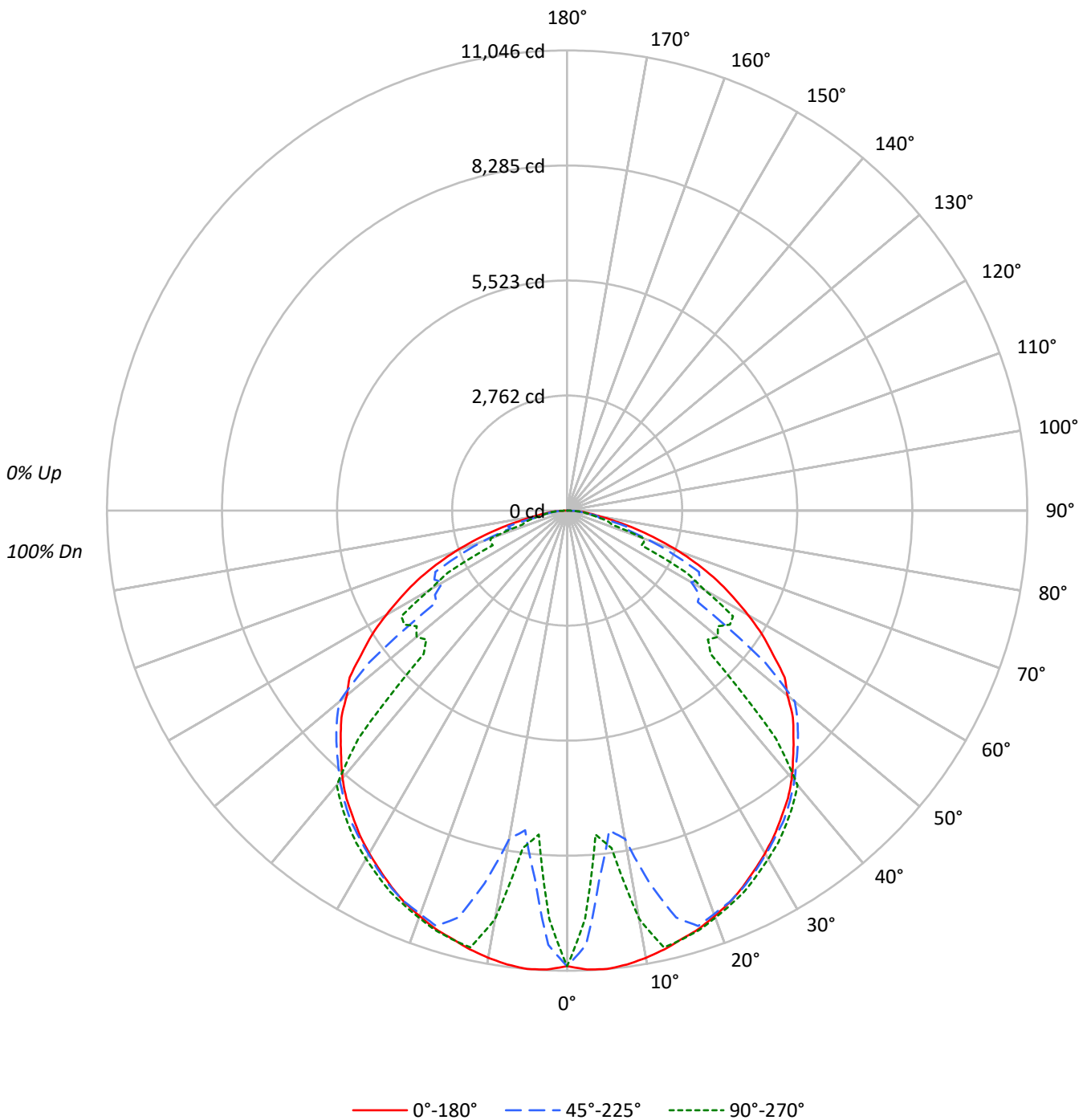
Lumens per Lamp: N/A
Luminaire Lumens: 28973.0 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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



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Luminous Intensity Polar Plot





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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°	14715	14715	14715
5°	14919	11986	10541
10°	14894	10931	13595
15°	14828	14088	14840
20°	14828	14760	14891
25°	14801	14834	14970
30°	14758	14807	14998
35°	14735	14898	15072
40°	14737	14898	15111
45°	14621	14908	9264
50°	14456	14938	9873
55°	14151	8982	11191
60°	13499	9259	10247
65°	12648	11116	6270
70°	11168	8421	7686
75°	8899	7655	5330
80°	6131	5532	4580
85°	5874	5108	4846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.5	3.0
10°-20°	2739.8	9.5
20°-30°	4507.5	15.6
30°-40°	5667.6	19.6
40°-50°	5558.5	19.2
50°-60°	4605.5	15.9
60°-70°	3248.3	11.2
70°-80°	1417.2	4.9
80°-90°	354.1	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°	8121.8	28.0
0°-40°	13789.4	47.6
0°-60°	23953.4	82.7
0°-90°	28973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10936	10936	10936	10936	10936	
5°	11046	10281	8874	8046	7804	###
15°	10645	7392	10114	10687	10654	3010
25°	9970	9123	9992	10059	10084	4596
35°	8971	8966	9070	9130	9176	5621
45°	7684	7708	7834	6939	4869	5931
55°	6032	6230	3829	4353	4770	5397
65°	3973	4207	3492	2686	1969	3906
75°	1712	1678	1472	962	1025	1836
85°	380	339	331	316	314	395
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10936.4	10936.4	10936.4	10936.4	10936.4
2.5°	11026.6	10797.7	10434.2	9976.5	9814.4
5°	11046.2	10281.2	8874.1	8046.3	7804.4
7.5°	10990.0	9343.6	7736.4	7910.3	8166.6
10°	10901.1	8519.7	8000.6	9412.9	9950.4
12.5°	10787.3	7787.4	9165.7	10633.0	10740.2
15°	10644.7	7392.5	10113.8	10686.6	10653.9
17.5°	10524.4	7623.9	10453.8	10579.4	10555.8
20°	10355.7	8085.6	10308.7	10409.4	10400.2
22.5°	10185.7	8632.2	10171.4	10243.3	10243.3
25°	9970.0	9122.6	9992.2	10058.9	10083.7
27.5°	9733.3	9405.0	9768.6	9823.5	9868.0
30°	9499.2	9445.6	9530.6	9601.2	9653.5
32.5°	9252.0	9231.1	9297.8	9372.3	9439.0
35°	8970.9	8965.6	9070.3	9130.4	9176.2
37.5°	8706.7	8688.4	8785.2	8868.9	8904.2
40°	8390.3	8390.3	8481.8	8566.8	8603.4
42.5°	8029.3	8080.3	8150.9	8238.6	7419.9
45°	7684.1	7707.6	7834.5	6938.7	4868.6
47.5°	7351.9	7382.0	7502.3	4460.6	4582.2
50°	6906.0	7042.0	7136.2	4447.5	4716.9
52.5°	6580.4	6639.2	5990.6	4403.1	4554.7
55°	6032.5	6229.9	3829.0	4353.4	4770.5
57.5°	5564.3	5708.1	3764.9	4460.6	4719.5
60°	5016.4	5236.1	3440.6	4303.7	3808.0
62.5°	4490.7	4699.9	3592.3	3387.0	3224.8
65°	3972.8	4206.9	3491.6	2686.0	1969.4
67.5°	3405.3	3186.9	2785.4	1892.3	1991.6
70°	2839.0	2225.7	2140.7	2115.9	1953.7
72.5°	2257.1	1624.2	1421.5	1587.6	1136.4
75°	1711.8	1677.8	1472.5	962.5	1025.2
77.5°	1187.4	1210.9	788.5	938.9	779.4
80°	791.2	685.2	714.0	598.9	591.1
82.5°	547.9	559.7	469.5	455.1	461.6
85°	380.5	338.7	330.9	316.5	313.9
87.5°	126.8	147.8	137.3	124.2	132.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)