

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-L735-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-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

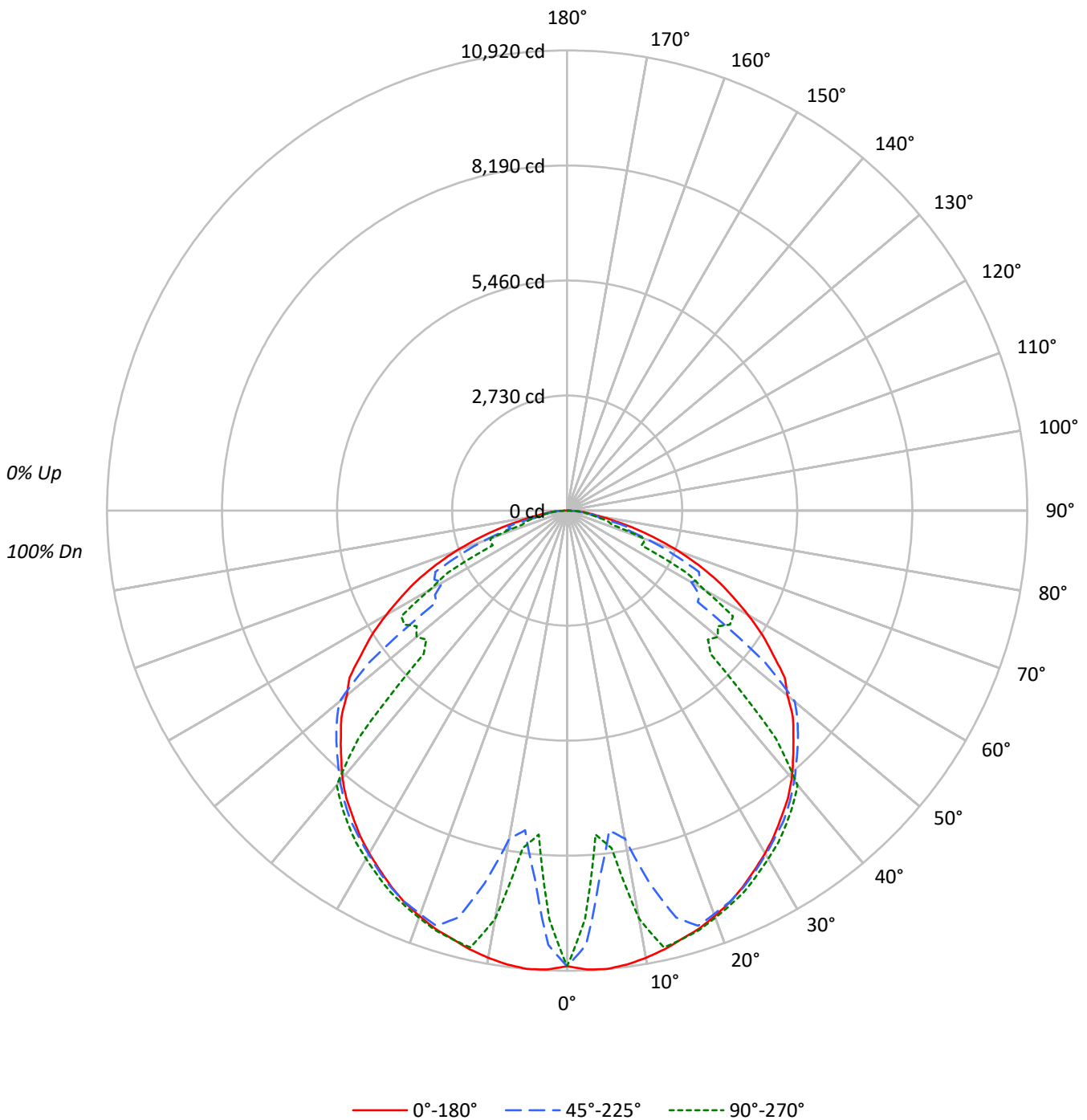
Lumens per Lamp: N/A  
Luminaire Lumens: 28641.0 lumens  
Efficiency: N/A  
Efficacy: 159.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14546	14546	14546
5°	14748	11848	10420
10°	14723	10806	13439
15°	14658	13927	14670
20°	14658	14591	14721
25°	14632	14664	14799
30°	14589	14637	14826
35°	14566	14727	14899
40°	14568	14727	14938
45°	14454	14737	9158
50°	14290	14766	9760
55°	13989	8879	11063
60°	13344	9153	10130
65°	12503	10989	6198
70°	11041	8325	7598
75°	8797	7567	5269
80°	6060	5469	4527
85°	5808	5050	4790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	864.5	3.0
10°-20°	2708.4	9.5
20°-30°	4455.8	15.6
30°-40°	5602.6	19.6
40°-50°	5494.8	19.2
50°-60°	4552.7	15.9
60°-70°	3211.1	11.2
70°-80°	1401.0	4.9
80°-90°	350.0	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°	8028.7	28.0
0°-40°	13631.4	47.6
0°-60°	23678.9	82.7
0°-90°	28641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28641.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10811	10811	10811	10811	10811	
5°	10920	10163	8772	7954	7715	###
15°	10523	7308	9998	10564	10532	2976
25°	9856	9018	9878	9944	9968	4543
35°	8868	8863	8966	9026	9071	5556
45°	7596	7619	7745	6859	4813	5863
55°	5963	6158	3785	4304	4716	5335
65°	3927	4159	3452	2655	1947	3861
75°	1692	1659	1456	951	1014	1815
85°	376	335	327	313	310	390
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10811.0	10811.0	10811.0	10811.0	10811.0
2.5°	10900.2	10674.0	10314.6	9862.2	9701.9
5°	10919.6	10163.4	8772.4	7954.1	7715.0
7.5°	10864.0	9236.5	7647.8	7819.7	8073.1
10°	10776.1	8422.1	7908.9	9305.0	9836.3
12.5°	10663.7	7698.2	9060.7	10511.1	10617.1
15°	10522.8	7307.8	9997.9	10564.1	10531.8
17.5°	10403.8	7536.6	10334.0	10458.1	10434.9
20°	10237.1	7992.9	10190.5	10290.1	10281.0
22.5°	10069.0	8533.3	10054.8	10125.9	10125.9
25°	9855.7	9018.0	9877.7	9943.6	9968.2
27.5°	9621.7	9297.3	9656.6	9710.9	9754.9
30°	9390.3	9337.3	9421.4	9491.2	9542.9
32.5°	9146.0	9125.3	9191.3	9264.9	9330.9
35°	8868.1	8862.9	8966.3	9025.8	9071.0
37.5°	8607.0	8588.9	8684.5	8767.3	8802.2
40°	8294.1	8294.1	8384.6	8468.6	8504.8
42.5°	7937.3	7987.7	8057.5	8144.2	7334.9
45°	7596.0	7619.3	7744.7	6859.2	4812.8
47.5°	7267.7	7297.4	7416.4	4409.5	4529.7
50°	6826.9	6961.3	7054.4	4396.6	4662.9
52.5°	6505.0	6563.2	5922.0	4352.6	4502.6
55°	5963.3	6158.5	3785.1	4303.5	4715.9
57.5°	5500.5	5642.7	3721.8	4409.5	4665.4
60°	4958.9	5176.1	3401.2	4254.4	3764.4
62.5°	4439.2	4646.0	3551.1	3348.2	3187.9
65°	3927.3	4158.7	3451.6	2655.3	1946.8
67.5°	3366.3	3150.4	2753.5	1870.6	1968.8
70°	2806.5	2200.2	2116.2	2091.6	1931.3
72.5°	2231.2	1605.6	1405.2	1569.4	1123.4
75°	1692.2	1658.6	1455.6	951.4	1013.5
77.5°	1173.8	1197.1	779.5	928.2	770.5
80°	782.1	677.4	705.8	592.1	584.3
82.5°	541.7	553.3	464.1	449.9	456.3
85°	376.2	334.8	327.1	312.8	310.3
87.5°	125.4	146.1	135.7	122.8	130.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)