

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-LD5-36HE-W-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-WG-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

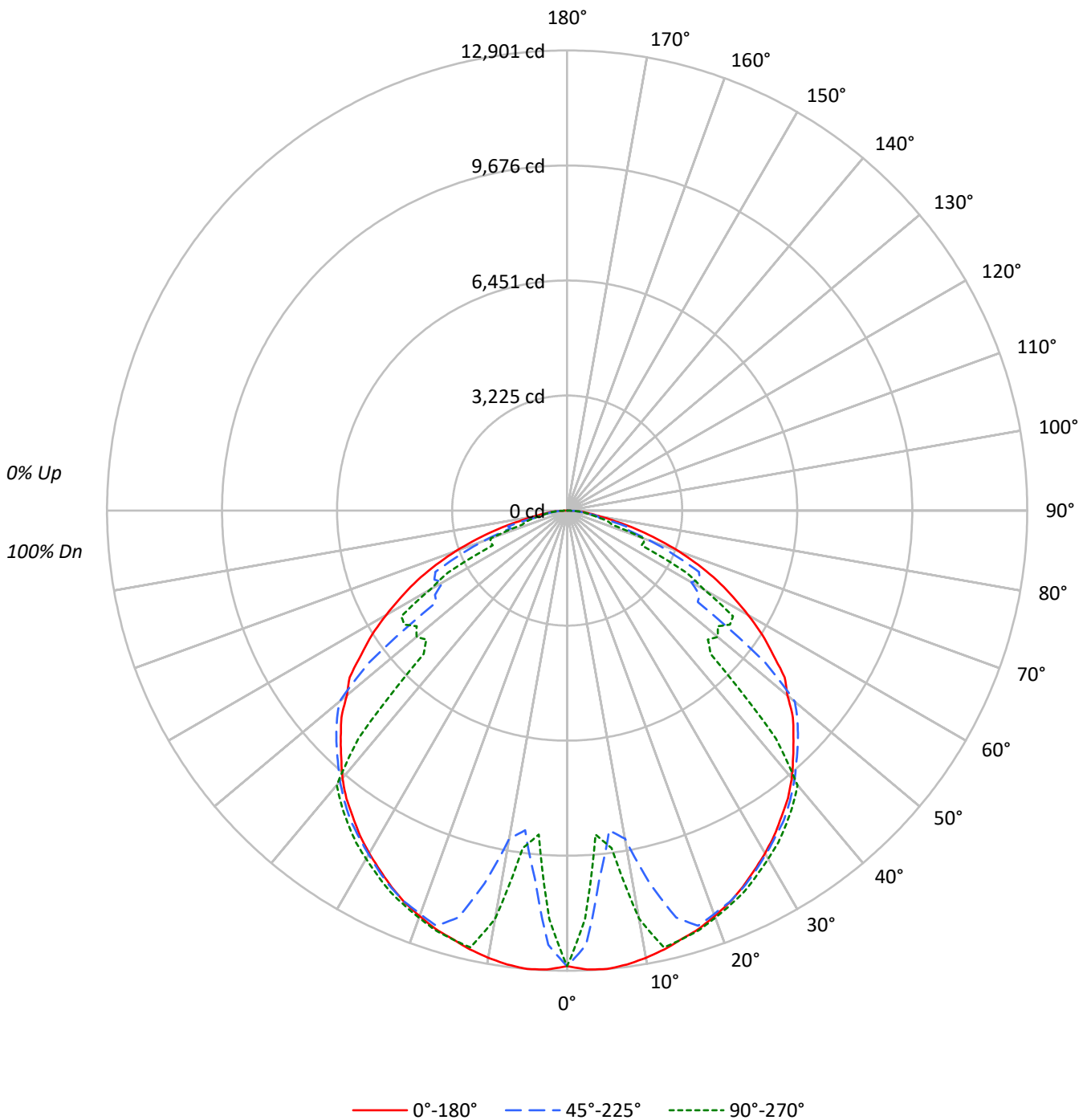
Lumens per Lamp: N/A
Luminaire Lumens: 33837.0 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
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°	17185	17185	17185
5°	17424	13998	12310
10°	17394	12766	15877
15°	17317	16453	17332
20°	17317	17238	17391
25°	17286	17325	17483
30°	17236	17293	17516
35°	17209	17399	17603
40°	17211	17398	17648
45°	17076	17410	10819
50°	16883	17445	11531
55°	16527	10490	13069
60°	15765	10813	11968
65°	14772	12982	7323
70°	13044	9835	8976
75°	10393	8940	6225
80°	7159	6461	5349
85°	6861	5965	5658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1021.3	3.0
10°-20°	3199.7	9.5
20°-30°	5264.2	15.6
30°-40°	6619.1	19.6
40°-50°	6491.7	19.2
50°-60°	5378.6	15.9
60°-70°	3793.7	11.2
70°-80°	1655.2	4.9
80°-90°	413.5	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°	9485.3	28.0
0°-40°	16104.3	47.6
0°-60°	27974.6	82.7
0°-90°	33837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12772	12772	12772	12772	12772	
5°	12901	12007	10364	9397	9115	###
15°	12432	8634	11812	12481	12442	3515
25°	11644	10654	11670	11748	11777	5367
35°	10477	10471	10593	10663	10717	6564
45°	8974	9002	9150	8104	5686	6927
55°	7045	7276	4472	5084	5571	6303
65°	4640	4913	4078	3137	2300	4562
75°	1999	1960	1720	1124	1197	2144
85°	444	396	386	370	366	461
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12772.4	12772.4	12772.4	12772.4	12772.4
2.5°	12877.7	12610.5	12185.9	11651.4	11462.0
5°	12900.7	12007.2	10363.9	9397.2	9114.6
7.5°	12835.0	10912.2	9035.2	9238.3	9537.7
10°	12731.1	9950.0	9343.7	10993.1	11620.8
12.5°	12598.3	9094.8	10704.5	12418.0	12543.3
15°	12431.8	8633.5	11811.7	12480.7	12442.5
17.5°	12291.3	8903.9	12208.8	12355.4	12327.9
20°	12094.3	9443.0	12039.3	12156.9	12146.2
22.5°	11895.7	10081.4	11878.9	11962.9	11962.9
25°	11643.7	10654.1	11669.7	11747.6	11776.6
27.5°	11367.3	10984.0	11408.5	11472.7	11524.6
30°	11093.9	11031.3	11130.6	11213.0	11274.1
32.5°	10805.3	10780.8	10858.7	10945.8	11023.7
35°	10476.9	10470.8	10593.0	10663.2	10716.7
37.5°	10168.4	10147.0	10260.0	10357.8	10399.0
40°	9798.8	9798.8	9905.7	10005.0	10047.8
42.5°	9377.3	9436.9	9519.3	9621.7	8665.6
45°	8974.1	9001.6	9149.7	8103.6	5685.9
47.5°	8586.2	8621.3	8761.8	5209.4	5351.5
50°	8065.4	8224.2	8334.2	5194.2	5508.8
52.5°	7685.1	7753.8	6996.3	5142.2	5319.4
55°	7045.2	7275.8	4471.8	5084.2	5571.4
57.5°	6498.4	6666.4	4396.9	5209.4	5511.8
60°	5858.5	6115.1	4018.2	5026.2	4447.3
62.5°	5244.6	5488.9	4195.3	3955.6	3766.2
65°	4639.8	4913.2	4077.7	3137.0	2300.0
67.5°	3977.0	3721.9	3253.0	2209.9	2326.0
70°	3315.7	2599.4	2500.1	2471.1	2281.7
72.5°	2636.0	1896.8	1660.1	1854.1	1327.2
75°	1999.2	1959.5	1719.7	1124.1	1197.4
77.5°	1386.7	1414.2	920.9	1096.6	910.2
80°	924.0	800.3	833.9	699.5	690.3
82.5°	639.9	653.7	548.3	531.5	539.1
85°	444.4	395.6	386.4	369.6	366.5
87.5°	148.1	172.6	160.4	145.1	154.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)