

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-LD5-60HE-W-WG-UNV-L750-ED4-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-LD5-60HE-W-WG-UNV-L750-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

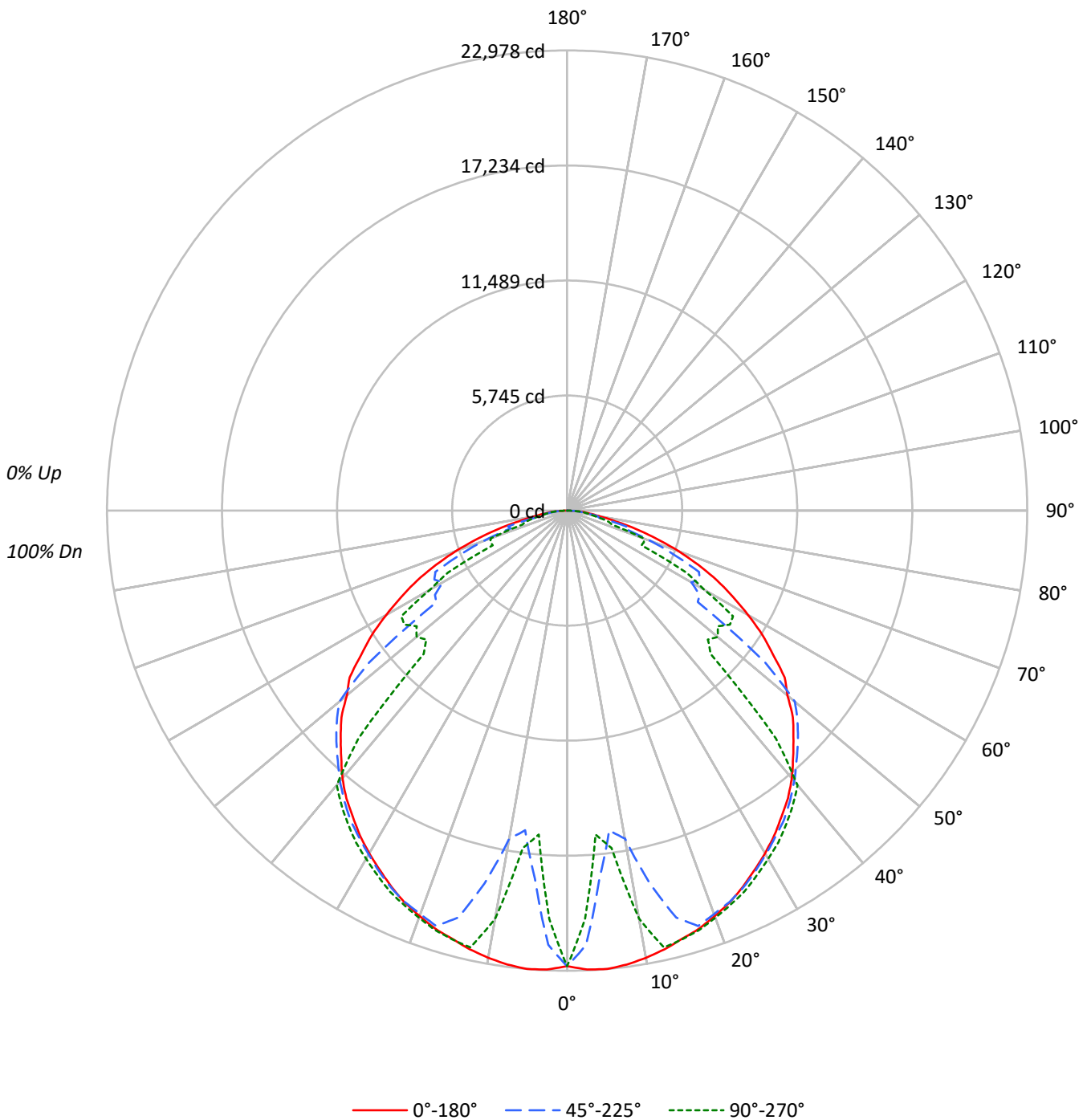
Lumens per Lamp: N/A  
Luminaire Lumens: 60269.0 lumens  
Efficiency: N/A  
Efficacy: 163.3 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 369  
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-LD5-60HE-W-WG-UNV-L750-ED4-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L750-ED4-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	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°	30609	30609	30609
5°	31035	24932	21927
10°	30981	22738	28279
15°	30844	29306	30871
20°	30844	30704	30977
25°	30789	30858	31141
30°	30700	30801	31199
35°	30651	30991	31353
40°	30655	30989	31434
45°	30415	31010	19271
50°	30070	31073	20539
55°	29436	18684	23278
60°	28080	19259	21316
65°	26311	23124	13043
70°	23233	17518	15988
75°	18511	15923	11087
80°	12752	11509	9527
85°	12221	10624	10079



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L750-ED4-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1819.2	3.0
10°-20°	5699.2	9.5
20°-30°	9376.4	15.6
30°-40°	11789.6	19.6
40°-50°	11562.7	19.2
50°-60°	9580.2	15.9
60°-70°	6757.1	11.2
70°-80°	2948.1	4.9
80°-90°	736.5	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°	16894.8	28.0
0°-40°	28684.4	47.6
0°-60°	49827.2	82.7
0°-90°	60269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	60269.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22750	22750	22750	22750	22750	
5°	22978	21387	18460	16738	16235	###
15°	22143	15378	21038	22230	22162	6262
25°	20739	18977	20786	20924	20976	9560
35°	18661	18650	18868	18993	19088	11692
45°	15984	16033	16297	14434	10128	12338
55°	12549	12959	7965	9056	9924	11227
65°	8264	8751	7263	5587	4097	8126
75°	3561	3490	3063	2002	2133	3819
85°	792	704	688	658	653	821
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L750-ED4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22749.6	22749.6	22749.6	22749.6	22749.6
2.5°	22937.3	22461.2	21705.0	20752.9	20415.6
5°	22978.1	21386.7	18459.7	16737.8	16234.6
7.5°	22861.1	19436.3	16093.1	16454.9	16988.1
10°	22676.1	17722.5	16642.6	19580.5	20698.5
12.5°	22439.5	16199.2	19066.3	22118.5	22341.5
15°	22143.0	15377.7	21038.5	22230.0	22162.0
17.5°	21892.7	15859.2	21745.8	22007.0	21958.0
20°	21541.8	16819.4	21443.9	21653.3	21634.3
22.5°	21188.2	17956.5	21158.2	21307.8	21307.8
25°	20739.3	18976.6	20785.6	20924.3	20976.0
27.5°	20246.9	19564.2	20320.4	20434.6	20527.1
30°	19760.0	19648.5	19825.3	19972.2	20081.0
32.5°	19245.9	19202.4	19341.1	19496.1	19634.9
35°	18661.0	18650.1	18867.8	18992.9	19088.1
37.5°	18111.5	18073.5	18274.7	18448.8	18522.3
40°	17453.2	17453.2	17643.6	17820.5	17896.6
42.5°	16702.4	16808.5	16955.4	17137.7	15434.8
45°	15984.3	16033.3	16297.1	14433.7	10127.6
47.5°	15293.3	15355.9	15606.2	9278.8	9531.8
50°	14365.7	14648.6	14844.5	9251.6	9812.0
52.5°	13688.4	13810.8	12461.5	9159.1	9474.7
55°	12548.6	12959.3	7964.9	9055.8	9923.5
57.5°	11574.7	11874.0	7831.6	9278.8	9817.4
60°	10434.9	10891.9	7157.0	8952.4	7921.4
62.5°	9341.4	9776.6	7472.6	7045.5	6708.2
65°	8264.2	8751.1	7263.1	5587.4	4096.7
67.5°	7083.6	6629.3	5794.2	3936.2	4143.0
70°	5905.7	4629.9	4453.1	4401.4	4064.1
72.5°	4695.2	3378.6	2956.9	3302.4	2363.9
75°	3560.8	3490.1	3063.0	2002.1	2132.7
77.5°	2470.0	2519.0	1640.3	1953.2	1621.3
80°	1645.8	1425.4	1485.3	1245.9	1229.6
82.5°	1139.8	1164.3	976.6	946.7	960.3
85°	791.6	704.5	688.2	658.3	652.9
87.5°	263.9	307.4	285.6	258.4	274.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)