

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-N-UNV-L735-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 (P23767)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-60HE-N-UNV-L735-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

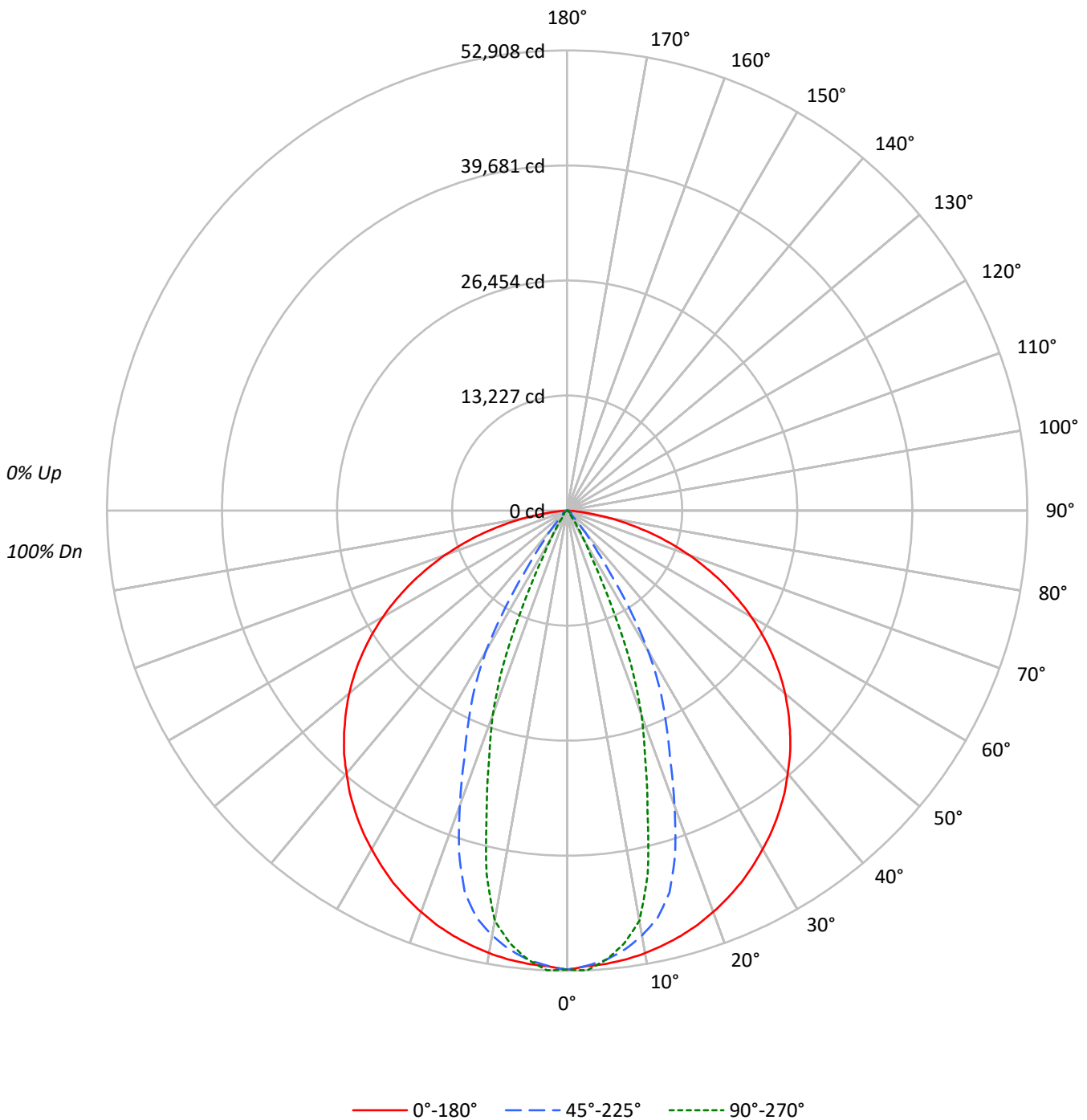
Lumens per Lamp: N/A  
Luminaire Lumens: 56098.0 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

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

	0°	45°	90°
0°	71014	71014	71014
5°	70635	70011	69980
10°	70590	67767	65390
15°	70491	63310	49765
20°	70327	51611	35821
25°	70148	39906	17646
30°	69837	29003	5723
35°	69672	12867	1472
40°	69307	5226	992
45°	68998	1467	1056
50°	68460	1041	1172
55°	67474	1237	501
60°	65808	1378	304
65°	63102	879	360
70°	58622	780	445
75°	51283	587	613
80°	38345	720	876
85°	18993	931	1162



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4898.0	8.7
10°-20°	12247.5	21.8
20°-30°	13265.9	23.6
30°-40°	9824.0	17.5
40°-50°	7075.8	12.6
50°-60°	4381.3	7.8
60°-70°	2694.4	4.8
70°-80°	1420.4	2.5
80°-90°	290.7	0.5
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°	30411.4	54.2
0°-40°	40235.4	71.7
0°-60°	51692.4	92.1
0°-90°	56098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56098.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	52780	52780	52780	52780	52780	
5°	52298	52491	51836	51873	51813	###
15°	50605	49430	45450	38651	35726	14285
25°	47251	43281	26881	16910	11886	21772
35°	42418	29904	7834	1843	896	26537
45°	36261	16848	771	557	555	27965
55°	28764	3470	527	477	213	25677
65°	19820	367	276	176	113	19556
75°	9865	85	113	148	118	10419
85°	1230	33	60	90	75	###
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	52779.5	52779.5	52779.5	52779.5	52779.5
2.5°	52440.6	52774.5	52380.3	52674.1	52907.6
5°	52297.5	52490.8	51835.5	51873.1	51812.9
7.5°	52046.4	52001.2	50899.0	50416.9	50206.0
10°	51667.3	51368.5	49600.9	48594.0	47860.9
12.5°	51177.7	50509.8	47981.4	44780.1	42791.6
15°	50605.2	49430.1	45450.5	38651.3	35726.2
17.5°	49922.3	48257.6	41312.7	32394.4	29783.1
20°	49116.3	46949.5	36045.1	27561.1	25017.6
22.5°	48217.4	45357.6	30928.0	22906.0	19277.9
25°	47250.8	43281.2	26880.6	16910.2	11886.1
27.5°	46133.5	40612.2	23084.3	9960.3	6066.1
30°	44950.9	37398.4	18667.8	5358.0	3683.3
32.5°	43758.2	33755.2	13209.3	3346.9	2089.0
35°	42417.5	29903.6	7833.7	1842.9	896.4
37.5°	41019.0	26373.5	4629.9	838.6	575.0
40°	39459.7	23147.1	2975.3	557.4	564.9
42.5°	37953.3	20139.1	1674.7	549.9	559.9
45°	36261.0	16847.5	770.8	557.4	554.9
47.5°	34511.0	13435.3	499.6	562.4	562.4
50°	32705.7	9606.3	497.1	575.0	559.9
52.5°	30800.0	5993.3	517.2	572.5	459.5
55°	28763.7	3469.9	527.3	477.1	213.4
57.5°	26654.7	2046.3	532.3	273.7	120.5
60°	24455.2	1132.4	512.2	203.4	113.0
62.5°	22187.9	539.8	404.2	190.8	110.5
65°	19820.3	366.6	276.2	175.8	113.0
67.5°	17362.2	283.7	218.4	165.7	115.5
70°	14901.6	210.9	198.4	165.7	113.0
72.5°	12400.8	143.1	165.7	168.2	113.0
75°	9864.9	85.4	113.0	148.1	118.0
77.5°	7351.6	52.7	87.9	153.2	143.1
80°	4948.8	45.2	92.9	143.1	113.0
82.5°	2905.0	40.2	90.4	110.5	90.4
85°	1230.3	32.6	60.3	90.4	75.3
87.5°	231.0	27.6	47.7	72.8	65.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)