

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: P563259

Luminaire Tested: **VHB-15-N-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-15-N-UNV-L735-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

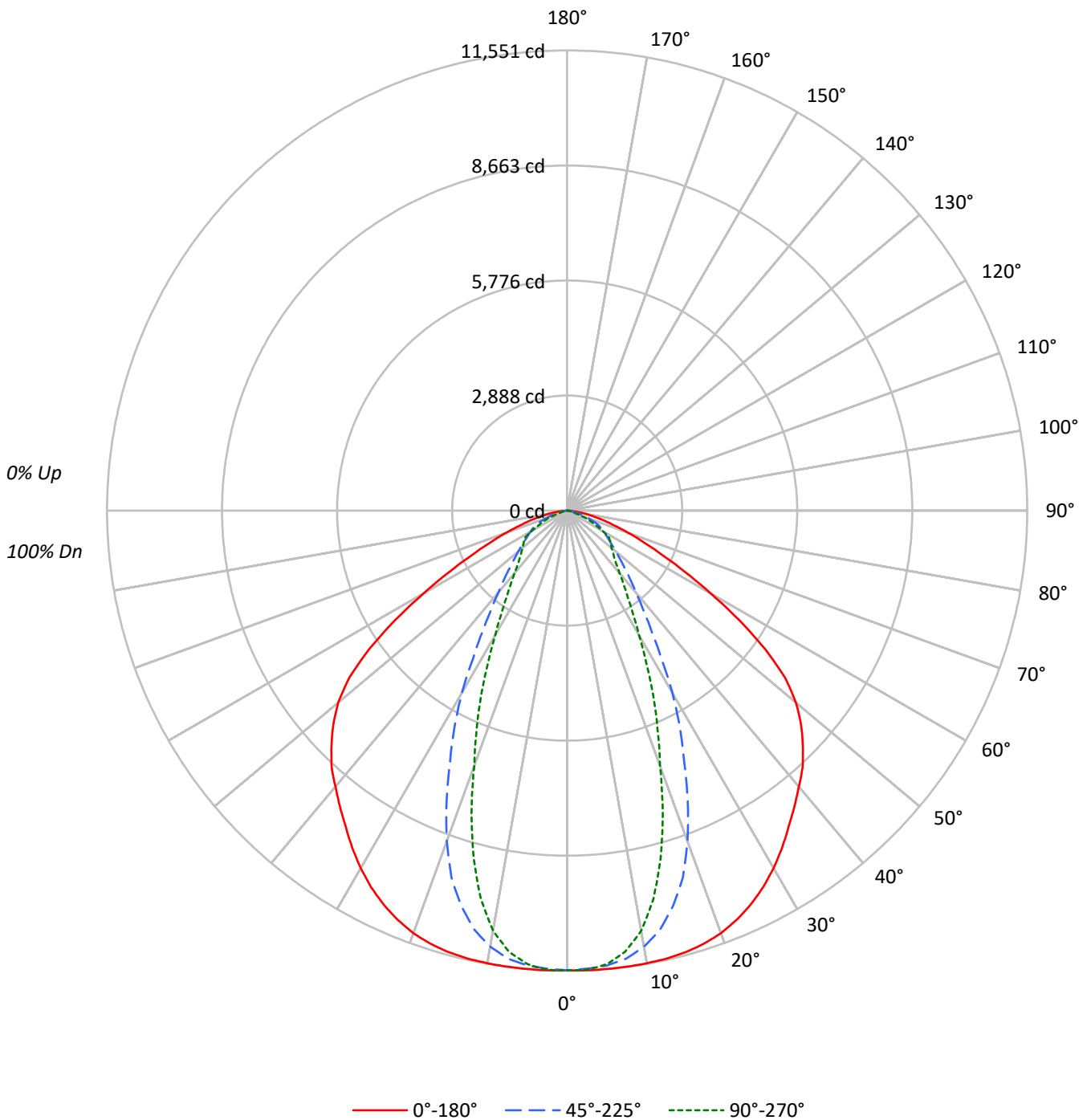
Lumens per Lamp: N/A
Luminaire Lumens: 16275.0 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 104
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42					42			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	67247	67247	67247
5°	67563	67050	66856
10°	68272	65764	63362
15°	69246	61962	54634
20°	69993	54740	42299
25°	70133	44699	32775
30°	69739	35501	24258
35°	68943	26307	18863
40°	68835	20429	15568
45°	68980	16812	13829
50°	68001	14540	13190
55°	61732	12961	13328
60°	48533	12387	12144
65°	36048	12005	9139
70°	27647	9611	5580
75°	21044	6853	3078
80°	15453	3188	2487
85°	9668	2741	2213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1084.2	6.7
10°-20°	2854.2	17.5
20°-30°	3446.7	21.2
30°-40°	3081.8	18.9
40°-50°	2413.2	14.8
50°-60°	1823.4	11.2
60°-70°	1083.0	6.7
70°-80°	416.2	2.6
80°-90°	72.3	0.4
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°	7385.1	45.4
0°-40°	10466.9	64.3
0°-60°	14703.5	90.3
0°-90°	16275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11540	11540	11540	11540	11540	
5°	11550	11500	11463	11448	11429	###
15°	11478	11100	10271	9412	9056	3243
25°	10908	9625	6952	5481	5098	5022
35°	9692	6897	3698	2883	2652	6078
45°	8370	3566	2040	1724	1678	6443
55°	6076	1935	1276	1271	1312	5336
65°	2614	1086	871	726	663	2694
75°	935	522	304	150	137	1023
85°	145	50	41	36	33	193
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11540.2	11540.2	11540.2	11540.2	11540.2
2.5°	11551.1	11513.0	11510.0	11534.5	11538.2
5°	11550.3	11499.9	11462.6	11447.5	11429.4
7.5°	11546.8	11470.5	11344.6	11223.7	11167.6
10°	11538.2	11402.8	11114.3	10839.4	10708.4
12.5°	11519.4	11281.9	10772.4	10267.3	9992.4
15°	11478.4	11099.9	10271.0	9412.3	9056.2
17.5°	11404.2	10848.7	9656.3	8444.5	7986.1
20°	11287.0	10529.2	8827.4	7340.7	6821.1
22.5°	11118.5	10111.9	7914.2	6346.9	5931.7
25°	10907.8	9624.7	6952.1	5481.2	5097.6
27.5°	10657.4	9056.2	6123.0	4675.3	4297.4
30°	10364.5	8392.0	5276.1	3913.9	3605.2
32.5°	10037.0	7692.5	4391.8	3333.2	3079.2
35°	9691.6	6896.7	3698.1	2883.4	2651.7
37.5°	9366.3	6044.6	3131.8	2485.6	2322.9
40°	9049.1	5149.5	2685.6	2171.0	2046.6
42.5°	8749.7	4293.2	2344.5	1907.7	1826.3
45°	8370.5	3566.4	2040.1	1723.5	1678.1
47.5°	7968.1	3010.0	1798.2	1573.7	1557.9
50°	7501.1	2564.0	1603.9	1443.5	1455.0
52.5°	6895.2	2211.3	1419.7	1351.4	1385.3
55°	6076.3	1935.1	1275.8	1270.8	1311.9
57.5°	5117.1	1670.9	1162.1	1193.8	1239.9
60°	4164.4	1458.7	1062.9	1108.9	1042.0
62.5°	3326.8	1263.7	968.6	884.3	826.9
65°	2614.4	1086.5	870.7	726.1	662.8
67.5°	2084.7	921.8	732.5	577.9	525.3
70°	1622.7	775.0	564.1	433.9	327.5
72.5°	1243.5	647.7	440.3	246.9	186.4
75°	934.7	522.4	304.4	150.5	136.7
77.5°	666.4	387.9	162.6	108.7	100.8
80°	460.5	249.0	95.0	78.4	74.1
82.5°	285.7	120.2	64.8	56.1	52.6
85°	144.6	50.4	41.0	35.9	33.1
87.5°	48.2	24.5	18.7	17.3	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)