

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: P563300

Luminaire Tested: **VHB-36-N-UNV-L850-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563300
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-36-N-UNV-L850-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

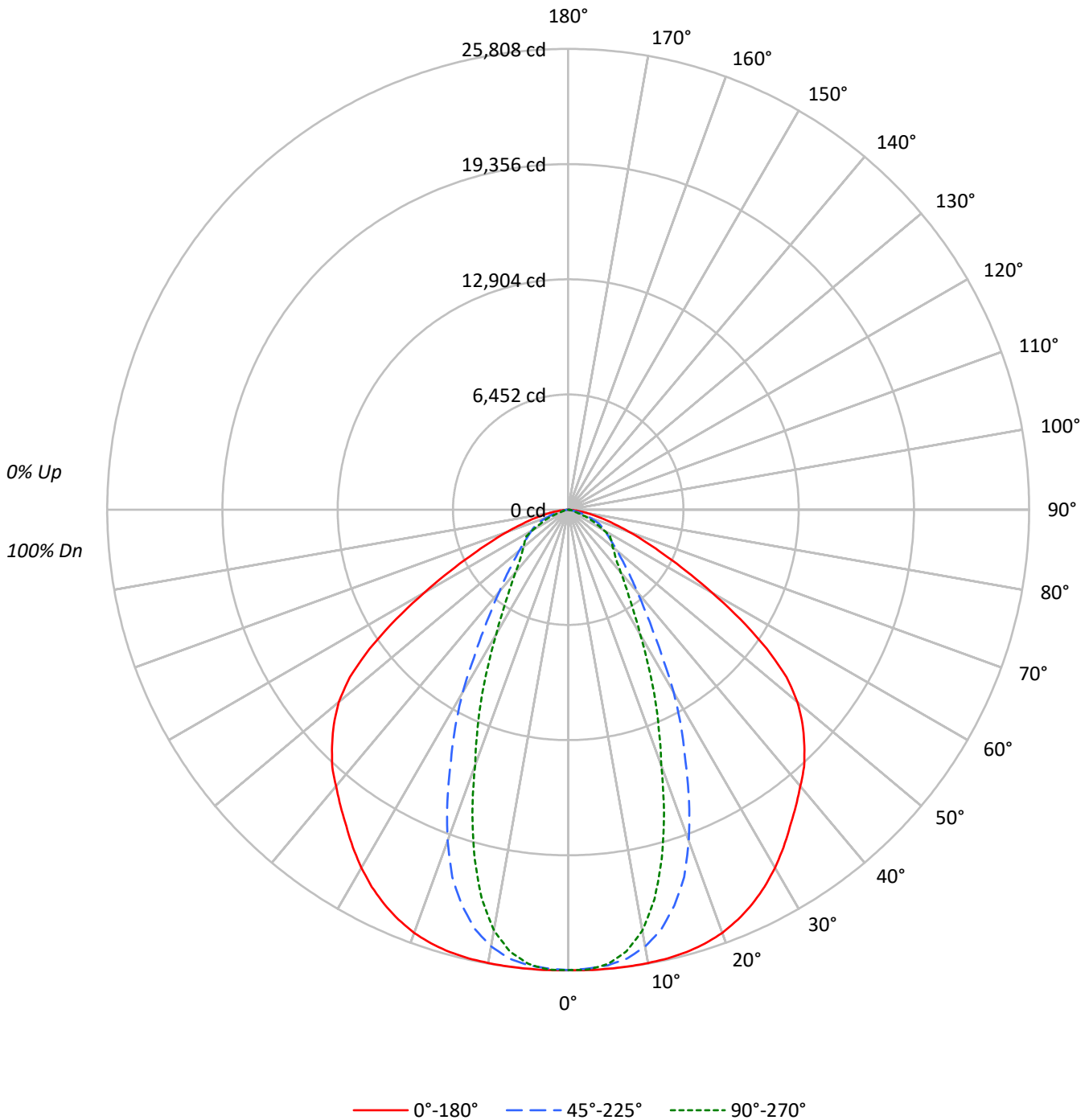
Lumens per Lamp: N/A
Luminaire Lumens: 36363.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 246
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°	100167	100167	100167
5°	100637	99873	99583
10°	101694	97958	94380
15°	103144	92294	81378
20°	104256	81537	63005
25°	104464	66581	48820
30°	103878	52880	36133
35°	102692	39185	28097
40°	102532	30430	23189
45°	102748	25042	20600
50°	101290	21659	19647
55°	91952	19306	19852
60°	72292	18450	18089
65°	53695	17883	13613
70°	41181	14316	8310
75°	31346	10210	4584
80°	23018	4750	3703
85°	14402	4083	3294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2422.5	6.7
10°-20°	6377.0	17.5
20°-30°	7700.9	21.2
30°-40°	6885.6	18.9
40°-50°	5391.9	14.8
50°-60°	4074.0	11.2
60°-70°	2419.7	6.7
70°-80°	929.9	2.6
80°-90°	161.6	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°	16500.4	45.4
0°-40°	23386.0	64.3
0°-60°	32851.9	90.3
0°-90°	36363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25784	25784	25784	25784	25784	
5°	25807	25694	25611	25577	25536	###
15°	25646	24800	22948	21030	20234	7246
25°	24371	21504	15533	12246	11390	11221
35°	21654	15409	8262	6442	5925	13579
45°	18702	7968	4558	3851	3750	14396
55°	13576	4324	2850	2839	2931	11922
65°	5841	2428	1946	1622	1481	6019
75°	2088	1167	680	336	305	2286
85°	323	113	92	80	74	431
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25784.2	25784.2	25784.2	25784.2	25784.2
2.5°	25808.5	25723.3	25716.6	25771.4	25779.6
5°	25806.7	25694.1	25610.7	25577.0	25536.5
7.5°	25798.8	25628.4	25347.0	25076.8	24951.5
10°	25779.6	25477.2	24832.6	24218.4	23925.7
12.5°	25737.6	25207.1	24068.7	22940.0	22325.8
15°	25646.0	24800.3	22948.2	21029.9	20234.0
17.5°	25480.2	24239.0	21575.0	18867.5	17843.2
20°	25218.3	23525.3	19722.9	16401.2	15240.3
22.5°	24842.0	22592.9	17682.6	14180.7	13253.2
25°	24371.1	21504.4	15533.0	12246.5	11389.6
27.5°	23811.6	20234.0	13680.6	10445.9	9601.7
30°	23157.2	18750.1	11788.4	8744.7	8055.0
32.5°	22425.6	17187.3	9812.5	7447.2	6879.9
35°	21653.8	15409.2	8262.5	6442.4	5924.6
37.5°	20927.0	13505.4	6997.3	5553.5	5189.9
40°	20218.2	11505.5	6000.4	4850.7	4572.7
42.5°	19549.2	9592.2	5238.3	4262.4	4080.5
45°	18702.0	7968.3	4558.1	3850.8	3749.5
47.5°	17803.0	6725.3	4017.8	3516.1	3480.8
50°	16759.6	5728.7	3583.7	3225.3	3250.9
52.5°	15405.8	4940.8	3172.1	3019.3	3095.1
55°	13576.3	4323.5	2850.5	2839.3	2931.1
57.5°	11433.1	3733.3	2596.5	2667.4	2770.2
60°	9304.5	3259.1	2374.7	2477.5	2328.2
62.5°	7432.9	2823.4	2164.2	1975.9	1847.5
65°	5841.3	2427.6	1945.5	1622.4	1480.9
67.5°	4657.9	2059.5	1636.7	1291.1	1173.7
70°	3625.6	1731.6	1260.4	969.5	731.6
72.5°	2778.4	1447.2	983.8	551.5	416.5
75°	2088.4	1167.3	680.2	336.2	305.4
77.5°	1488.8	866.7	363.2	242.8	225.1
80°	1028.9	556.4	212.3	175.2	165.5
82.5°	638.2	268.6	144.8	125.3	117.4
85°	323.1	112.6	91.6	80.3	73.9
87.5°	107.7	54.8	41.7	38.6	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)