

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: P563373

Luminaire Tested: **VHB-36-W-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-36-W-UNV-L935-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

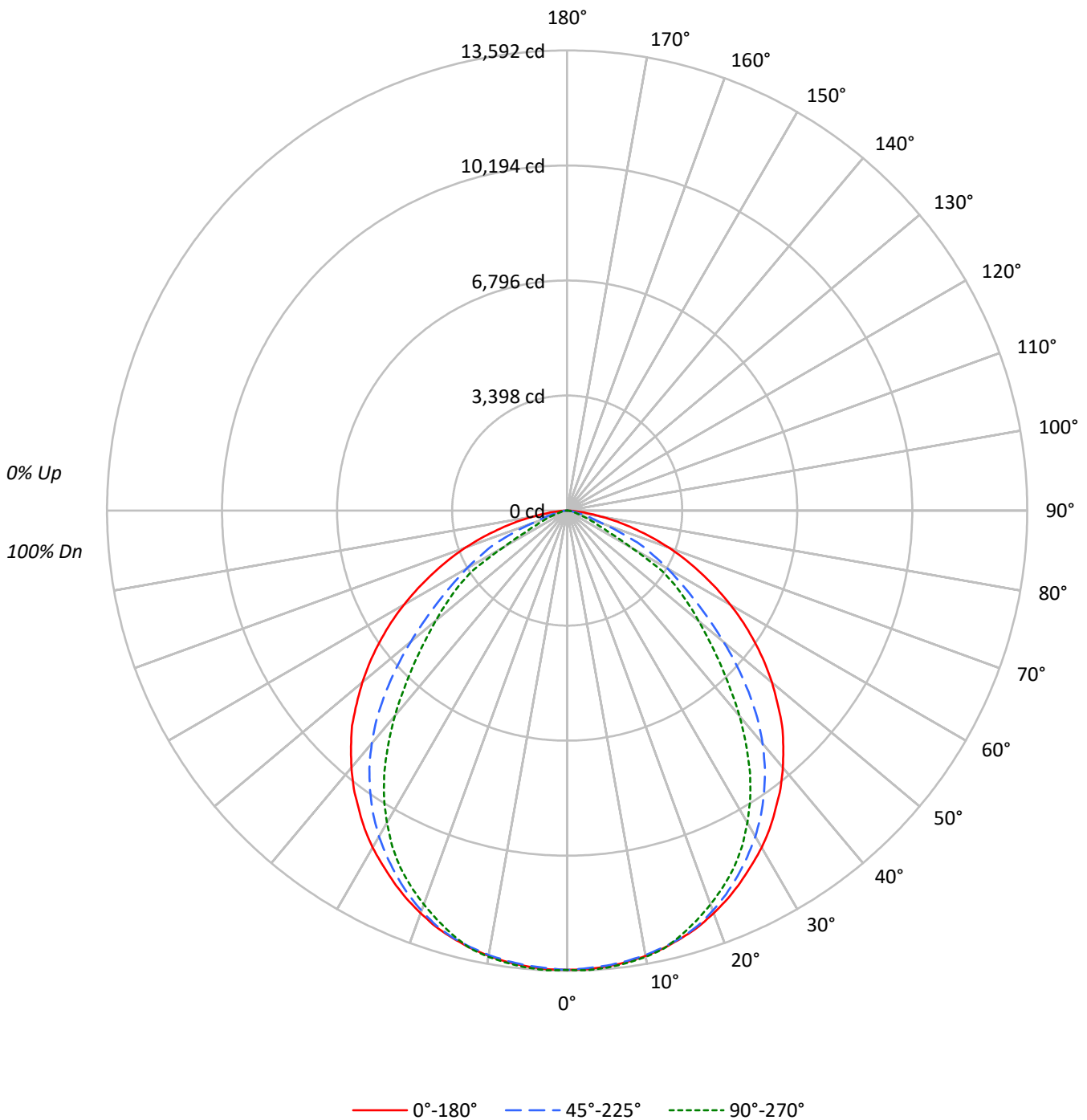
Lumens per Lamp: N/A
Luminaire Lumens: 30516.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	52706	52706	52706
5°	52715	52607	52849
10°	52695	52582	52798
15°	52570	52515	52245
20°	52317	51993	51180
25°	51929	51046	49926
30°	51552	49869	47736
35°	50937	48121	44635
40°	50266	45535	40161
45°	49352	41644	35091
50°	47722	36459	30654
55°	45774	31059	26759
60°	43242	26639	17083
65°	40068	22219	9056
70°	36165	12627	5869
75°	30383	7736	3650
80°	23090	3906	3197
85°	14027	3548	2884



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1284.5	4.2
10°-20°	3674.9	12.0
20°-30°	5478.1	18.0
30°-40°	6308.9	20.7
40°-50°	5871.4	19.2
50°-60°	4467.7	14.6
60°-70°	2398.2	7.9
70°-80°	882.3	2.9
80°-90°	150.0	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°	10437.5	34.2
0°-40°	16746.4	54.9
0°-60°	27085.5	88.8
0°-90°	30516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13567	13567	13567	13567	13567	
5°	13518	13479	13490	13537	13552	###
15°	13071	13050	13058	13033	12990	3689
25°	12115	12105	11909	11740	11648	5584
35°	10741	10610	10147	9637	9412	6724
45°	8983	8550	7580	6680	6387	6903
55°	6758	5994	4586	4083	3951	6037
65°	4359	3202	2417	1197	985	4322
75°	2024	1326	515	267	243	2170
85°	315	102	80	69	65	419
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13567.3	13567.3	13567.3	13567.3	13567.3
2.5°	13557.6	13516.4	13530.2	13574.2	13592.0
5°	13517.8	13479.3	13490.3	13537.1	13552.2
7.5°	13451.9	13414.8	13423.1	13467.0	13482.1
10°	13358.4	13320.0	13329.6	13372.1	13384.5
12.5°	13231.9	13196.3	13204.5	13234.8	13248.5
15°	13071.2	13050.5	13057.5	13032.7	12990.2
17.5°	12891.3	12861.0	12852.7	12742.8	12697.4
20°	12654.9	12643.9	12576.5	12440.5	12380.0
22.5°	12406.1	12385.4	12268.7	12105.1	12032.3
25°	12114.8	12105.1	11908.7	11739.6	11647.5
27.5°	11801.5	11778.1	11525.2	11313.7	11188.5
30°	11492.2	11434.6	11117.2	10820.3	10641.7
32.5°	11141.8	11033.2	10654.0	10274.8	10068.7
35°	10740.6	10610.0	10146.9	9637.1	9411.7
37.5°	10351.7	10155.2	9597.2	8959.7	8671.1
40°	9912.0	9630.2	8979.0	8238.2	7919.3
42.5°	9448.8	9105.3	8320.7	7459.1	7131.9
45°	8982.9	8550.2	7579.9	6679.9	6387.2
47.5°	8429.2	7970.3	6810.5	5936.4	5685.0
50°	7896.1	7360.1	6032.6	5243.9	5072.1
52.5°	7338.2	6688.2	5276.9	4658.5	4492.2
55°	6758.3	5994.1	4585.7	4082.7	3950.8
57.5°	6175.5	5281.0	3972.8	3559.2	3322.8
60°	5565.5	4573.3	3428.6	2892.6	2198.7
62.5°	4964.9	3836.6	2885.8	1813.9	1398.9
65°	4358.9	3201.8	2417.2	1196.9	985.2
67.5°	3780.4	2587.6	1724.6	867.1	737.9
70°	3184.0	2116.2	1111.7	621.1	516.7
72.5°	2586.2	1702.6	762.7	408.2	331.1
75°	2024.2	1326.1	515.4	266.6	243.2
77.5°	1517.0	915.2	287.2	197.8	185.5
80°	1032.1	548.4	174.6	151.1	142.9
82.5°	618.4	262.5	126.5	111.3	107.2
85°	314.7	101.6	79.6	68.6	64.7
87.5°	93.5	50.8	35.7	27.6	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)