

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: P563370

Luminaire Tested: **VHB-36-W-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563370
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-L835-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

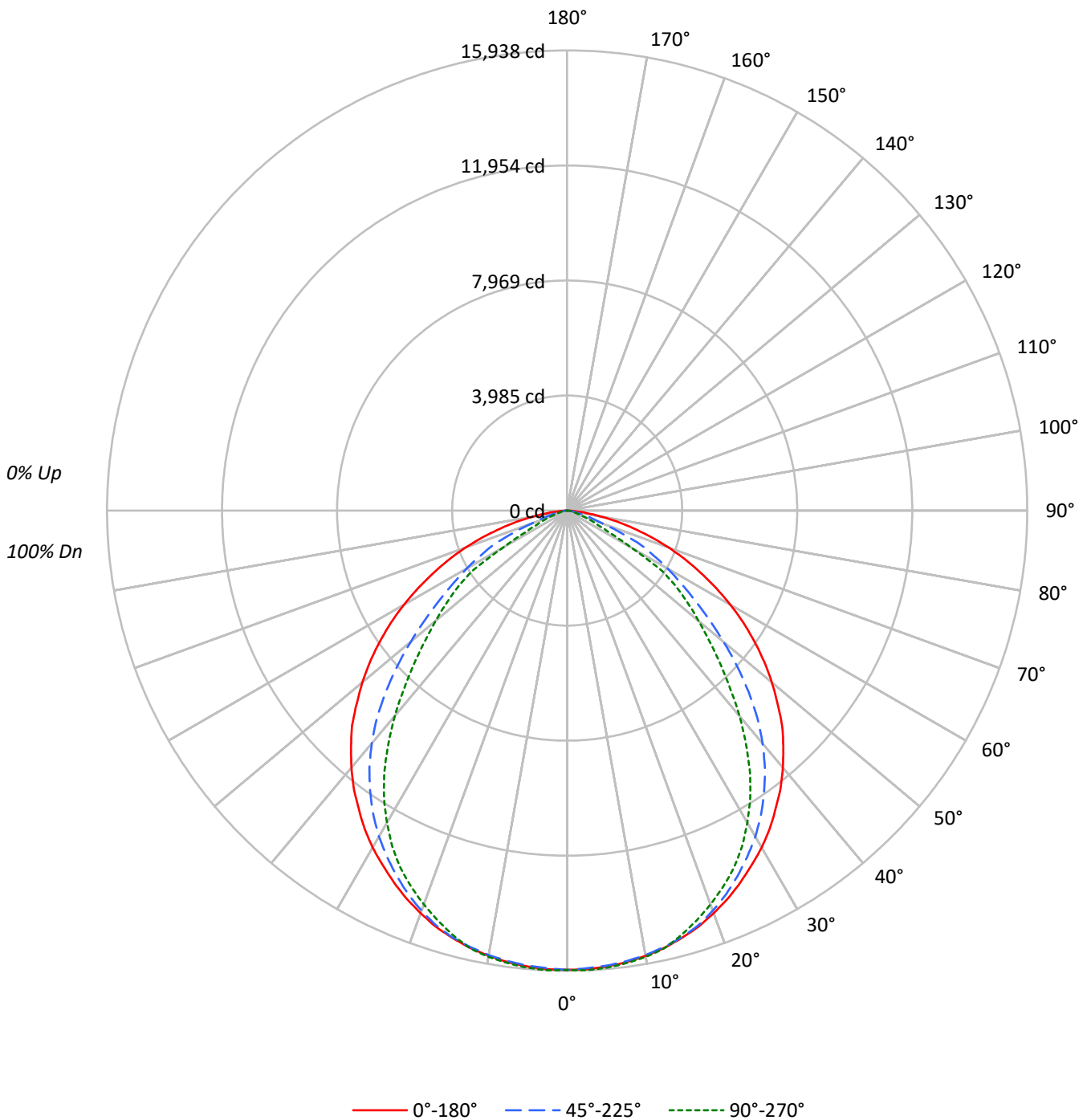
Lumens per Lamp: N/A
Luminaire Lumens: 35782.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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	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	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°	61802	61802	61802
5°	61811	61685	61969
10°	61789	61655	61909
15°	61642	61578	61260
20°	61345	60965	60013
25°	60890	59854	58542
30°	60448	58475	55974
35°	59727	56425	52337
40°	58940	53392	47091
45°	57868	48830	41146
50°	55957	42751	35944
55°	53672	36418	31376
60°	50704	31235	20031
65°	46982	26054	10620
70°	42405	14806	6881
75°	35626	9070	4281
80°	27074	4579	3747
85°	16447	4163	3379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1506.1	4.2
10°-20°	4309.1	12.0
20°-30°	6423.4	18.0
30°-40°	7397.6	20.7
40°-50°	6884.6	19.2
50°-60°	5238.7	14.6
60°-70°	2812.0	7.9
70°-80°	1034.5	2.9
80°-90°	175.9	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°	12238.6	34.2
0°-40°	19636.2	54.9
0°-60°	31759.5	88.8
0°-90°	35782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15909	15909	15909	15909	15909	
5°	15850	15805	15818	15873	15891	###
15°	15327	15303	15311	15282	15232	4326
25°	14205	14194	13964	13765	13658	6548
35°	12594	12441	11898	11300	11036	7884
45°	10533	10026	8888	7833	7489	8094
55°	7924	7028	5377	4787	4633	7078
65°	5111	3754	2834	1404	1155	5068
75°	2374	1555	604	313	285	2544
85°	369	119	93	80	76	492
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15908.6	15908.6	15908.6	15908.6	15908.6
2.5°	15897.2	15848.8	15865.1	15916.6	15937.5
5°	15850.5	15805.3	15818.2	15873.1	15890.9
7.5°	15773.2	15729.7	15739.4	15790.9	15808.7
10°	15663.6	15618.6	15629.8	15679.6	15694.2
12.5°	15515.3	15473.5	15483.2	15518.7	15534.7
15°	15326.9	15302.6	15310.8	15281.7	15231.8
17.5°	15115.8	15080.3	15070.6	14941.8	14888.6
20°	14838.7	14825.8	14746.8	14587.3	14516.4
22.5°	14547.0	14522.7	14385.8	14194.0	14108.7
25°	14205.4	14194.0	13963.7	13765.4	13657.5
27.5°	13838.1	13810.6	13514.0	13266.0	13119.2
30°	13475.4	13407.8	13035.6	12687.5	12478.1
32.5°	13064.5	12937.2	12492.5	12047.8	11806.2
35°	12594.1	12441.0	11897.9	11300.1	11035.8
37.5°	12138.0	11907.6	11253.4	10505.8	10167.4
40°	11622.4	11292.1	10528.4	9659.8	9285.9
42.5°	11079.3	10676.5	9756.6	8746.2	8362.6
45°	10533.1	10025.7	8888.0	7832.6	7489.4
47.5°	9883.7	9345.7	7985.8	6960.9	6666.0
50°	9258.7	8630.3	7073.7	6148.9	5947.4
52.5°	8604.5	7842.3	6187.5	5462.4	5267.4
55°	7924.5	7028.5	5377.0	4787.2	4632.6
57.5°	7241.2	6192.4	4658.4	4173.4	3896.2
60°	6525.9	5362.4	4020.2	3391.8	2578.1
62.5°	5821.7	4498.7	3383.8	2126.9	1640.3
65°	5111.1	3754.3	2834.4	1403.5	1155.3
67.5°	4432.8	3034.2	2022.2	1016.7	865.2
70°	3733.4	2481.4	1303.5	728.3	605.8
72.5°	3032.5	1996.4	894.4	478.6	388.3
75°	2373.5	1554.9	604.3	312.6	285.2
77.5°	1778.8	1073.1	336.7	231.9	217.6
80°	1210.2	643.0	204.7	177.2	167.5
82.5°	725.2	307.8	148.3	130.5	125.7
85°	369.0	119.1	93.4	80.5	75.8
87.5°	109.6	59.6	41.8	32.3	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)