

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: P563363

Luminaire Tested: **VHB-30-W-UNV-L850-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563363
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-30-W-UNV-L850-CD
Description: 30000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

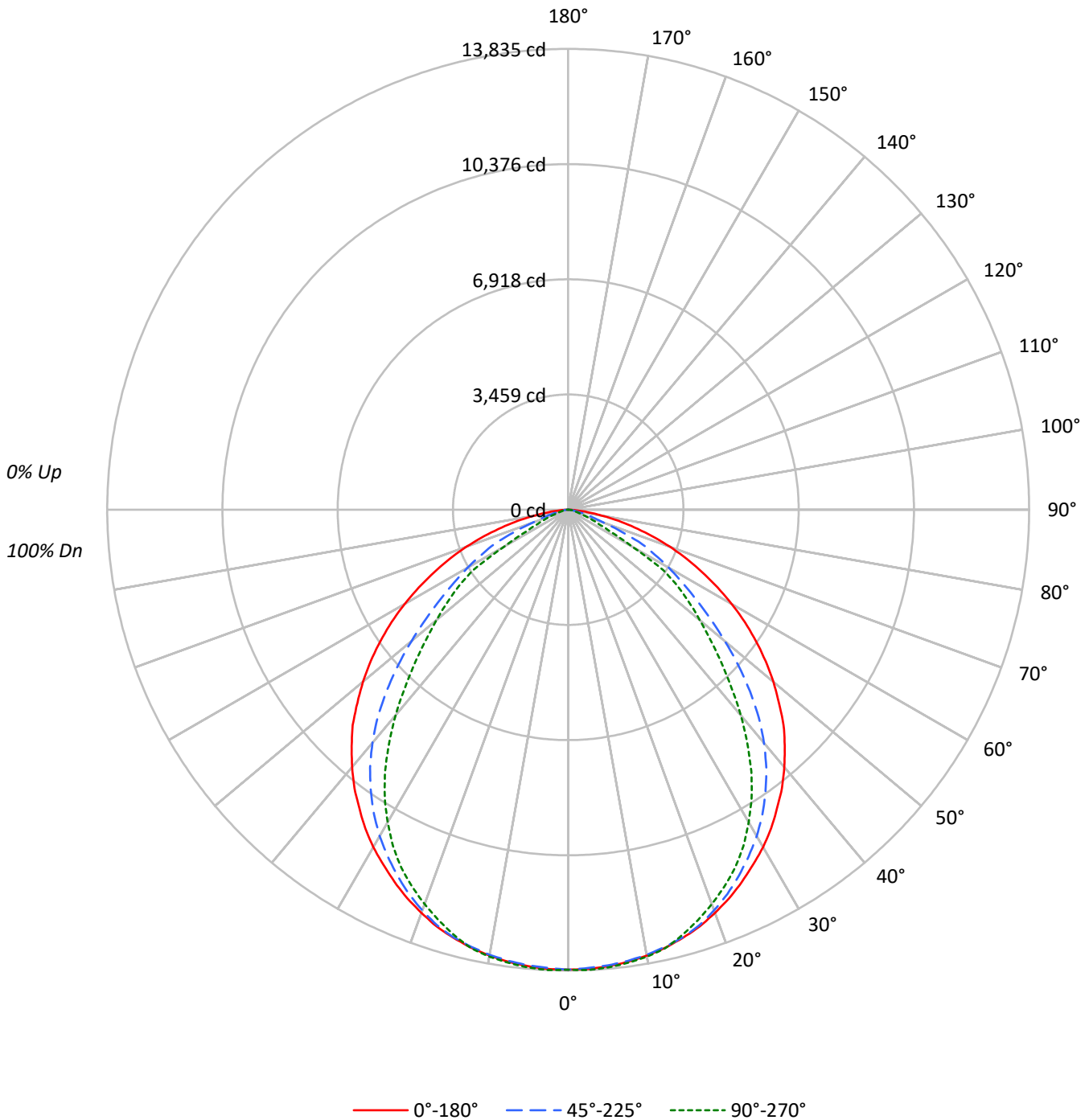
Lumens per Lamp: N/A
Luminaire Lumens: 31061.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 204
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°	53648	53648	53648
5°	53656	53547	53793
10°	53637	53521	53741
15°	53509	53453	53178
20°	53251	52921	52094
25°	52857	51957	50817
30°	52472	50760	48589
35°	51847	48981	45432
40°	51164	46348	40878
45°	50233	42387	35717
50°	48574	37111	31202
55°	46591	31613	27237
60°	44014	27114	17388
65°	40783	22617	9218
70°	36810	12853	5973
75°	30925	7874	3715
80°	23501	3975	3253
85°	14277	3615	2933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1307.4	4.2
10°-20°	3740.5	12.0
20°-30°	5575.9	18.0
30°-40°	6421.6	20.7
40°-50°	5976.3	19.2
50°-60°	4547.5	14.6
60°-70°	2441.0	7.9
70°-80°	898.1	2.9
80°-90°	152.7	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°	10623.9	34.2
0°-40°	17045.5	54.9
0°-60°	27569.2	88.8
0°-90°	31061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13810	13810	13810	13810	13810	
5°	13759	13720	13731	13779	13794	###
15°	13305	13284	13291	13265	13222	3755
25°	12331	12321	12121	11949	11856	5684
35°	10932	10800	10328	9809	9580	6844
45°	9143	8703	7715	6799	6501	7026
55°	6879	6101	4668	4156	4021	6144
65°	4437	3259	2460	1218	1003	4400
75°	2060	1350	525	271	248	2209
85°	320	103	81	70	66	427
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13809.7	13809.7	13809.7	13809.7	<i>13809.7</i>
2.5°	<i>13799.8</i>	<i>13757.8</i>	<i>13771.9</i>	<i>13816.6</i>	<i>13834.8</i>
5°	13759.2	13720.0	13731.2	13778.9	<i>13794.3</i>
7.5°	13692.1	13654.3	13662.8	13707.5	<i>13722.9</i>
10°	13597.0	13557.9	13567.6	13610.9	<i>13623.5</i>
12.5°	13468.2	13431.9	13440.4	13471.2	<i>13485.1</i>
15°	13304.7	13283.6	13290.7	13265.4	<i>13222.2</i>
17.5°	13121.5	13090.7	13082.3	12970.4	<i>12924.2</i>
20°	12880.9	12869.7	12801.1	12662.7	<i>12601.1</i>
22.5°	12627.7	12606.6	12487.8	12321.3	<i>12247.2</i>
25°	12331.2	12321.3	12121.4	11949.2	<i>11855.5</i>
27.5°	12012.3	11988.5	11731.0	11515.7	<i>11388.3</i>
30°	11697.5	11638.8	11315.7	11013.5	<i>10831.8</i>
32.5°	11340.8	11230.3	10844.3	10458.3	<i>10248.5</i>
35°	10932.5	10799.5	10328.1	9809.2	<i>9579.8</i>
37.5°	10536.6	10336.5	9768.6	9119.7	<i>8826.0</i>
40°	10089.0	9802.2	9139.3	8385.3	<i>8060.8</i>
42.5°	9617.6	9267.9	8469.3	7592.3	<i>7259.3</i>
45°	9143.4	8702.9	7715.3	6799.2	<i>6501.2</i>
47.5°	8579.7	8112.7	6932.1	6042.5	<i>5786.5</i>
50°	8037.1	7491.6	6140.4	5337.6	<i>5162.7</i>
52.5°	7469.2	6807.6	5371.2	4741.7	<i>4572.4</i>
55°	6879.0	6101.1	4667.6	4155.6	<i>4021.4</i>
57.5°	6285.8	5375.4	4043.8	3622.8	<i>3382.2</i>
60°	5664.9	4654.9	3489.8	2944.3	<i>2238.0</i>
62.5°	5053.6	3905.2	2937.3	1846.3	<i>1423.8</i>
65°	4436.7	3259.0	2460.4	1218.3	<i>1002.8</i>
67.5°	3847.9	2633.9	1755.4	882.5	<i>751.1</i>
70°	3240.8	2154.0	1131.6	632.2	<i>525.9</i>
72.5°	2632.4	1733.0	776.4	415.5	<i>337.0</i>
75°	2060.3	1349.8	524.6	271.4	<i>247.5</i>
77.5°	1544.1	931.5	292.3	201.3	<i>188.9</i>
80°	1050.5	558.2	177.7	153.8	<i>145.4</i>
82.5°	629.5	267.2	128.7	113.3	<i>109.1</i>
85°	320.3	103.4	81.1	69.9	<i>65.8</i>
87.5°	95.2	51.7	36.3	28.0	<i>26.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)