

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: P563390

Luminaire Tested: **VHB-9-W-UNV-L850-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563390
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-9-W-UNV-L850-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

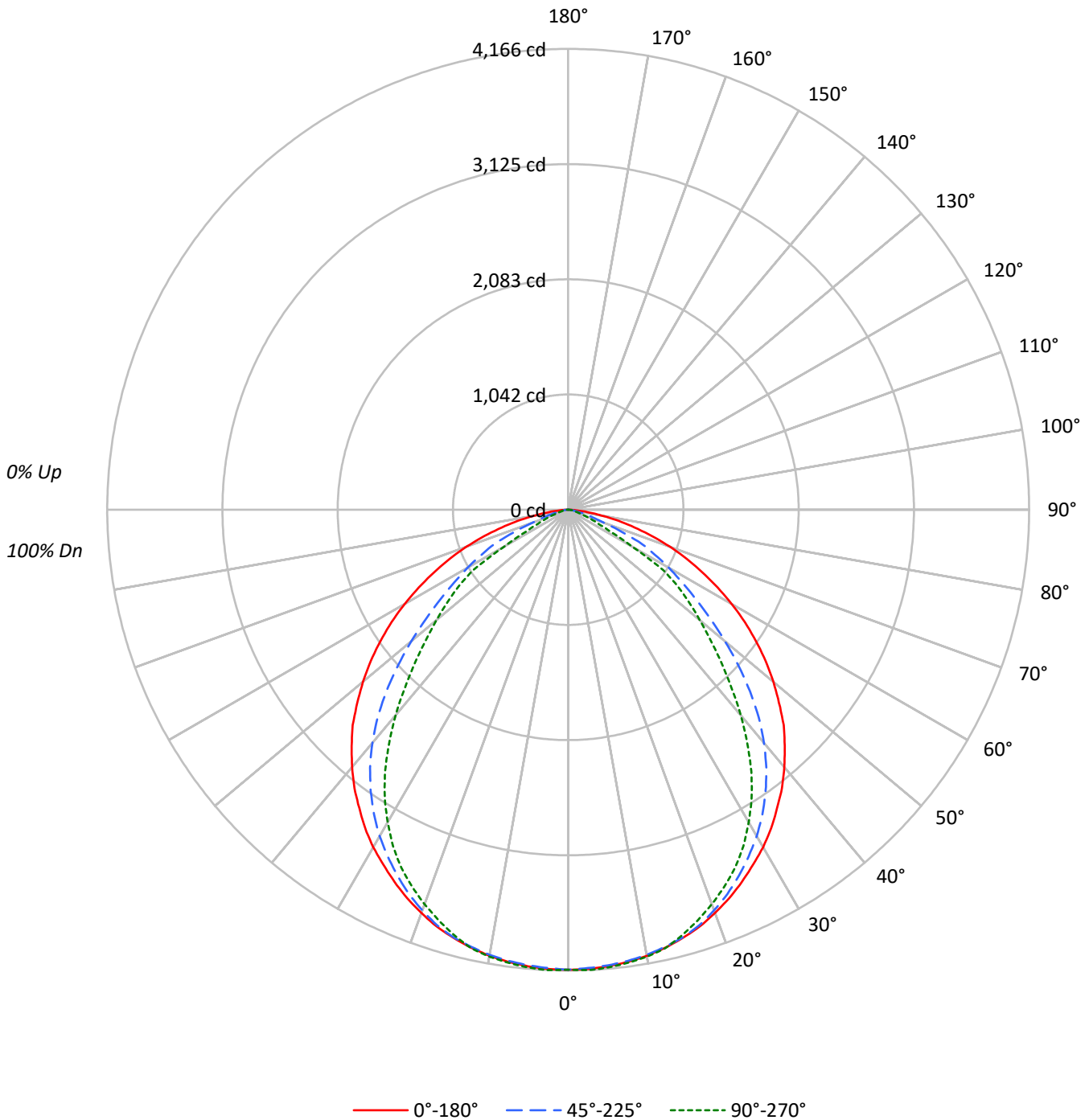
Lumens per Lamp: N/A
Luminaire Lumens: 9354.0 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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

TEST NUMBER: P563390

CATALOG NUMBER: VHB-9-W-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P563390

CATALOG NUMBER: VHB-9-W-UNV-L850-CD

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°	24234	24234	24234
5°	24238	24188	24299
10°	24229	24177	24276
15°	24171	24146	24021
20°	24055	23906	23532
25°	23876	23471	22956
30°	23703	22929	21949
35°	23420	22126	20522
40°	23112	20936	18466
45°	22691	19148	16134
50°	21942	16764	14094
55°	21046	14280	12303
60°	19882	12249	7855
65°	18423	10216	4164
70°	16629	5806	2699
75°	13970	3557	1677
80°	10618	1795	1470
85°	6452	1631	1324



TEST NUMBER: P563390

CATALOG NUMBER: VHB-9-W-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.7	4.2
10°-20°	1126.5	12.0
20°-30°	1679.2	18.0
30°-40°	1933.8	20.7
40°-50°	1799.7	19.2
50°-60°	1369.5	14.6
60°-70°	735.1	7.9
70°-80°	270.4	2.9
80°-90°	46.0	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°	3199.4	34.2
0°-40°	5133.2	54.9
0°-60°	8302.4	88.8
0°-90°	9354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4159	4159	4159	4159	4159	
5°	4144	4132	4135	4150	4154	394
15°	4007	4000	4002	3995	3982	1131
25°	3714	3710	3650	3598	3570	1712
35°	3292	3252	3110	2954	2885	2061
45°	2754	2621	2324	2048	1958	2116
55°	2072	1837	1406	1252	1211	1850
65°	1336	981	741	367	302	1325
75°	620	406	158	82	74	665
85°	96	31	24	21	20	129
90°	0	0	0	0	0	



TEST NUMBER: P563390

CATALOG NUMBER: VHB-9-W-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4158.8	4158.8	4158.8	4158.8	4158.8
2.5°	4155.8	4143.1	4147.4	4160.9	4166.3
5°	4143.6	4131.8	4135.1	4149.5	4154.1
7.5°	4123.4	4112.0	4114.5	4128.0	4132.6
10°	4094.7	4083.0	4085.9	4098.9	4102.7
12.5°	4056.0	4045.0	4047.6	4056.8	4061.0
15°	4006.7	4000.3	4002.5	3994.9	3981.8
17.5°	3951.5	3942.2	3939.7	3906.0	3892.1
20°	3879.1	3875.7	3855.1	3813.4	3794.8
22.5°	3802.8	3796.5	3760.7	3710.5	3688.2
25°	3713.5	3710.5	3650.4	3598.5	3570.3
27.5°	3617.5	3610.3	3532.8	3468.0	3429.6
30°	3522.7	3505.0	3407.7	3316.7	3262.0
32.5°	3415.3	3382.0	3265.7	3149.5	3086.3
35°	3292.3	3252.3	3110.3	2954.0	2884.9
37.5°	3173.1	3112.8	2941.8	2746.4	2657.9
40°	3038.3	2951.9	2752.3	2525.2	2427.5
42.5°	2896.3	2791.0	2550.5	2286.4	2186.1
45°	2753.5	2620.9	2323.5	2047.6	1957.8
47.5°	2583.8	2443.1	2087.6	1819.7	1742.6
50°	2420.4	2256.1	1849.2	1607.4	1554.7
52.5°	2249.4	2050.1	1617.5	1427.9	1377.0
55°	2071.6	1837.4	1405.6	1251.5	1211.0
57.5°	1893.0	1618.8	1217.8	1091.0	1018.5
60°	1706.0	1401.8	1051.0	886.7	674.0
62.5°	1521.9	1176.0	884.6	556.0	428.8
65°	1336.1	981.4	740.9	366.9	302.0
67.5°	1158.8	793.2	528.6	265.8	226.2
70°	976.0	648.7	340.8	190.4	158.4
72.5°	792.7	521.9	233.8	125.1	101.5
75°	620.5	406.5	158.0	81.7	74.5
77.5°	465.0	280.5	88.0	60.6	56.9
80°	316.4	168.1	53.5	46.3	43.8
82.5°	189.6	80.5	38.8	34.1	32.9
85°	96.5	31.1	24.4	21.0	19.8
87.5°	28.7	15.6	10.9	8.4	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)