

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: P563330

Luminaire Tested: **VHB-12-W-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563330
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-12-W-UNV-L950-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

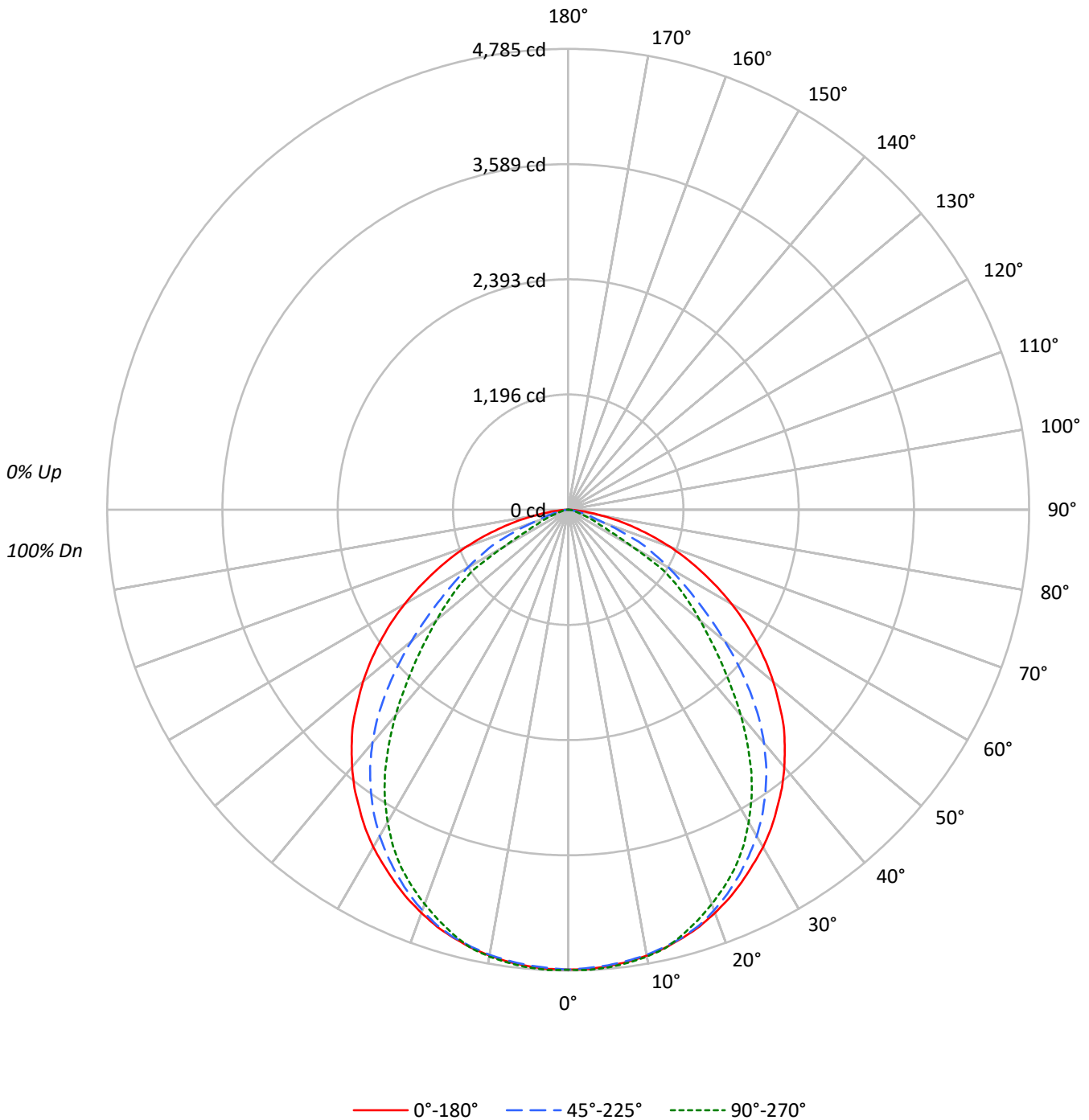
Lumens per Lamp: N/A
Luminaire Lumens: 10742.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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°	27830	27830	27830
5°	27834	27777	27905
10°	27824	27764	27878
15°	27758	27729	27586
20°	27624	27453	27024
25°	27420	26953	26362
30°	27220	26332	25206
35°	26895	25409	23568
40°	26541	24043	21206
45°	26059	21988	18529
50°	25198	19251	16186
55°	24169	16399	14129
60°	22832	14066	9020
65°	21157	11732	4782
70°	19096	6667	3099
75°	16042	4084	1927
80°	12191	2060	1688
85°	7408	1872	1524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.2	4.2
10°-20°	1293.6	12.0
20°-30°	1928.3	18.0
30°-40°	2220.8	20.7
40°-50°	2066.8	19.2
50°-60°	1572.7	14.6
60°-70°	844.2	7.9
70°-80°	310.6	2.9
80°-90°	52.8	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°	3674.1	34.2
0°-40°	5894.9	54.9
0°-60°	9534.4	88.8
0°-90°	10742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4776	4776	4776	4776	4776	
5°	4758	4745	4749	4765	4770	452
15°	4601	4594	4596	4588	4573	1299
25°	4265	4261	4192	4132	4100	1966
35°	3781	3735	3572	3392	3313	2367
45°	3162	3010	2668	2351	2248	2430
55°	2379	2110	1614	1437	1391	2125
65°	1534	1127	851	421	347	1522
75°	712	467	181	94	86	764
85°	111	36	28	24	23	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4775.9	4775.9	4775.9	4775.9	4775.9
2.5°	4772.5	4757.9	4762.8	4778.3	4784.6
5°	4758.4	4744.9	4748.7	4765.2	4770.5
7.5°	4735.2	4722.2	4725.1	4740.5	4745.9
10°	4702.3	4688.8	4692.2	4707.1	4711.5
12.5°	4657.8	4645.2	4648.2	4658.8	4663.6
15°	4601.2	4593.9	4596.4	4587.7	4572.7
17.5°	4537.9	4527.2	4524.3	4485.6	4469.6
20°	4454.7	4450.8	4427.1	4379.2	4357.9
22.5°	4367.1	4359.8	4318.7	4261.1	4235.5
25°	4264.6	4261.1	4192.0	4132.5	4100.1
27.5°	4154.3	4146.0	4057.0	3982.6	3938.5
30°	4045.4	4025.1	3913.4	3808.9	3746.0
32.5°	3922.1	3883.8	3750.3	3616.8	3544.3
35°	3780.8	3734.9	3571.8	3392.4	3313.0
37.5°	3643.9	3574.7	3378.3	3153.9	3052.3
40°	3489.1	3390.0	3160.7	2899.9	2787.7
42.5°	3326.1	3205.2	2929.0	2625.7	2510.5
45°	3162.1	3009.8	2668.2	2351.4	2248.4
47.5°	2967.2	2805.6	2397.4	2089.7	2001.2
50°	2779.5	2590.9	2123.6	1845.9	1785.4
52.5°	2583.1	2354.3	1857.5	1639.8	1581.3
55°	2379.0	2110.0	1614.2	1437.2	1390.7
57.5°	2173.9	1859.0	1398.5	1252.9	1169.7
60°	1959.1	1609.8	1206.9	1018.2	774.0
62.5°	1747.7	1350.5	1015.8	638.5	492.4
65°	1534.4	1127.1	850.9	421.3	346.8
67.5°	1330.8	910.9	607.1	305.2	259.7
70°	1120.8	744.9	391.3	218.7	181.9
72.5°	910.4	599.3	268.5	143.7	116.6
75°	712.5	466.8	181.4	93.9	85.6
77.5°	534.0	322.1	101.1	69.6	65.3
80°	363.3	193.0	61.4	53.2	50.3
82.5°	217.7	92.4	44.5	39.2	37.7
85°	110.8	35.8	28.0	24.2	22.8
87.5°	32.9	17.9	12.6	9.7	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)