

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: INVUE

Report Number: P411973

Luminaire Tested: **CPB-VA1-42-830-U-SY**

Issue Date: 9/23/2020

Test Information

Test Method: LM-79-08
Report Number: P411973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-963-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CPB-VA1-42-830-U-SY
Description: CLEARPATH BOLLARD LUMINAIRE
3000K, 80 CRI LEDS WITH SYMMETRIC DOUBLE SIDE LIGHTGUIDE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691 lumens
Efficiency: N/A
Efficacy: 30.4 lumens/watt
Luminous Opening: (L: 0.33 ' x W: 0 ' x H: 1.79 '
IES Classification: Type V - Long - Non-Cutoff
BUG Rating: B0 - U3 - G1

Input Watts (W): 22.7
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: 28.75 FT

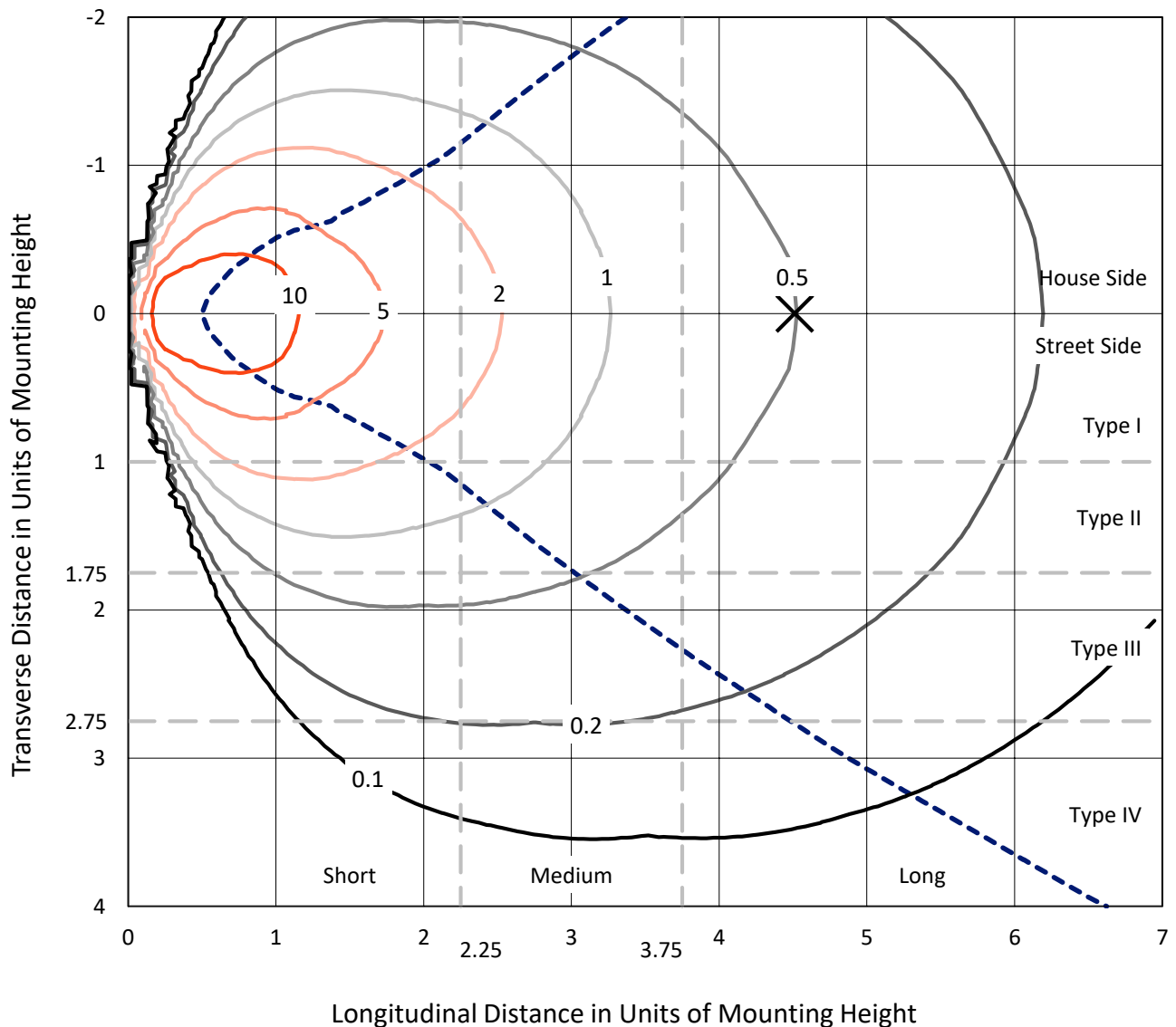


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

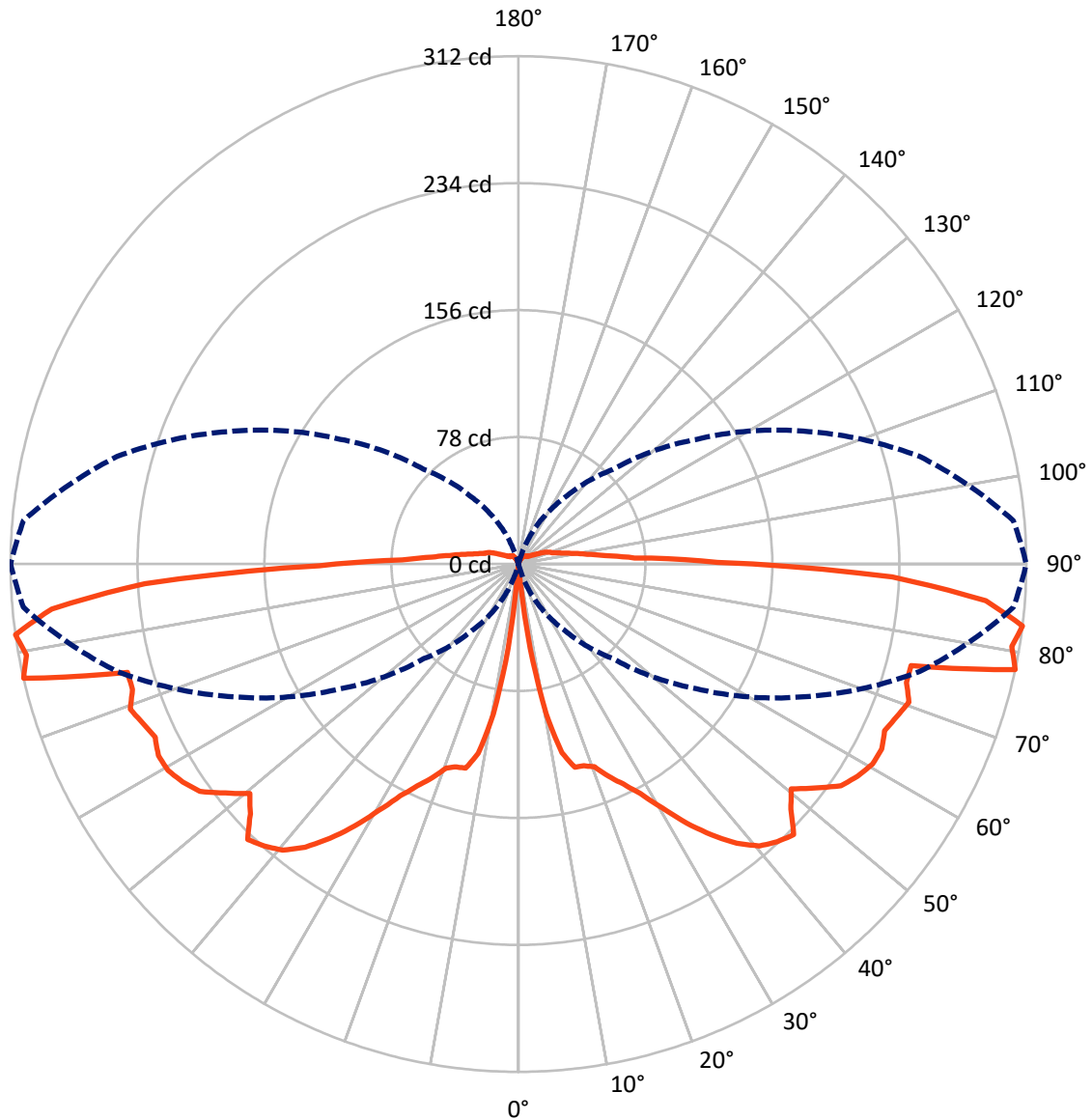


Based on 2.5 foot mounting height. Maximum calculated value = 18.3 fc
Type V - Long - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 77.5-Deg Vertical

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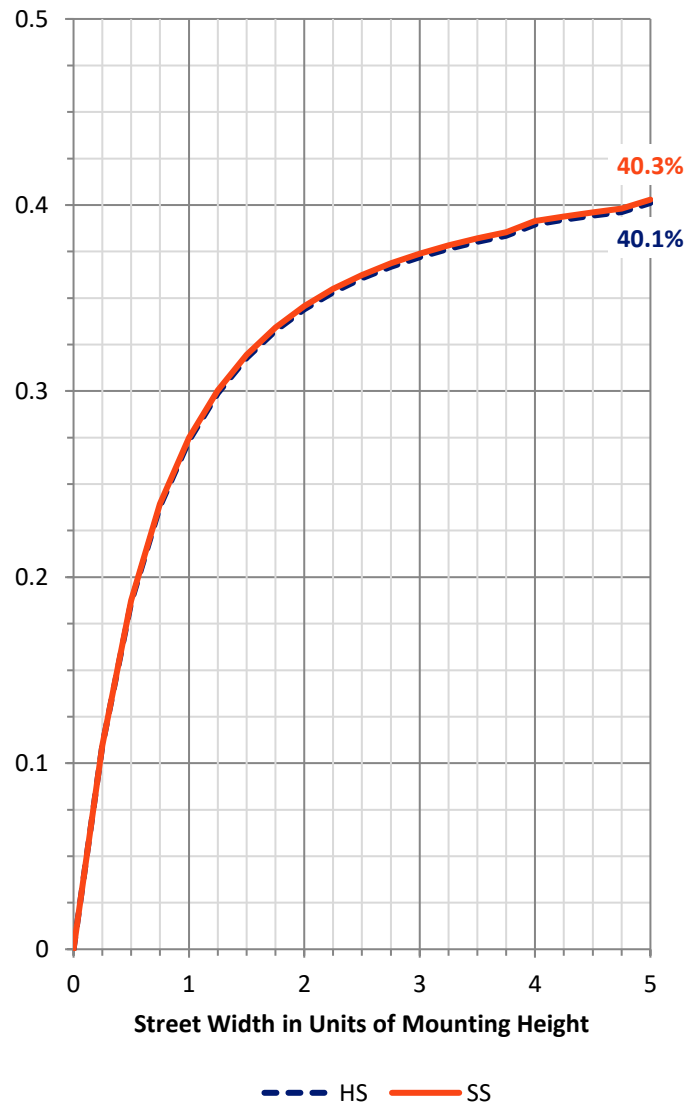
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	294.6	51.0	345.5
	% Fixture	42.6	7.4	50.0
Street Side	Lumens	294.6	51.0	345.5
	% Fixture	42.6	7.4	50.0
Total	Lumens	589.1	101.9	691.0
	% Fixture	85.2	14.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.2
10°-20°	17.1	2.5
20°-30°	32.6	4.7
30°-40°	53.3	7.7
40°-50°	73.7	10.7
50°-60°	86.3	12.5
60°-70°	98.1	14.2
70°-80°	115.1	16.6
80°-90°	111.2	16.1
90°-100°	47.7	6.9
100°-110°	21.6	3.1
110°-120°	13.3	1.9
120°-130°	8.7	1.3
130°-140°	5.9	0.8
140°-150°	3.4	0.5
150°-160°	1.2	0.2
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	589.1	85.2
0°-180°	691.0	100.0



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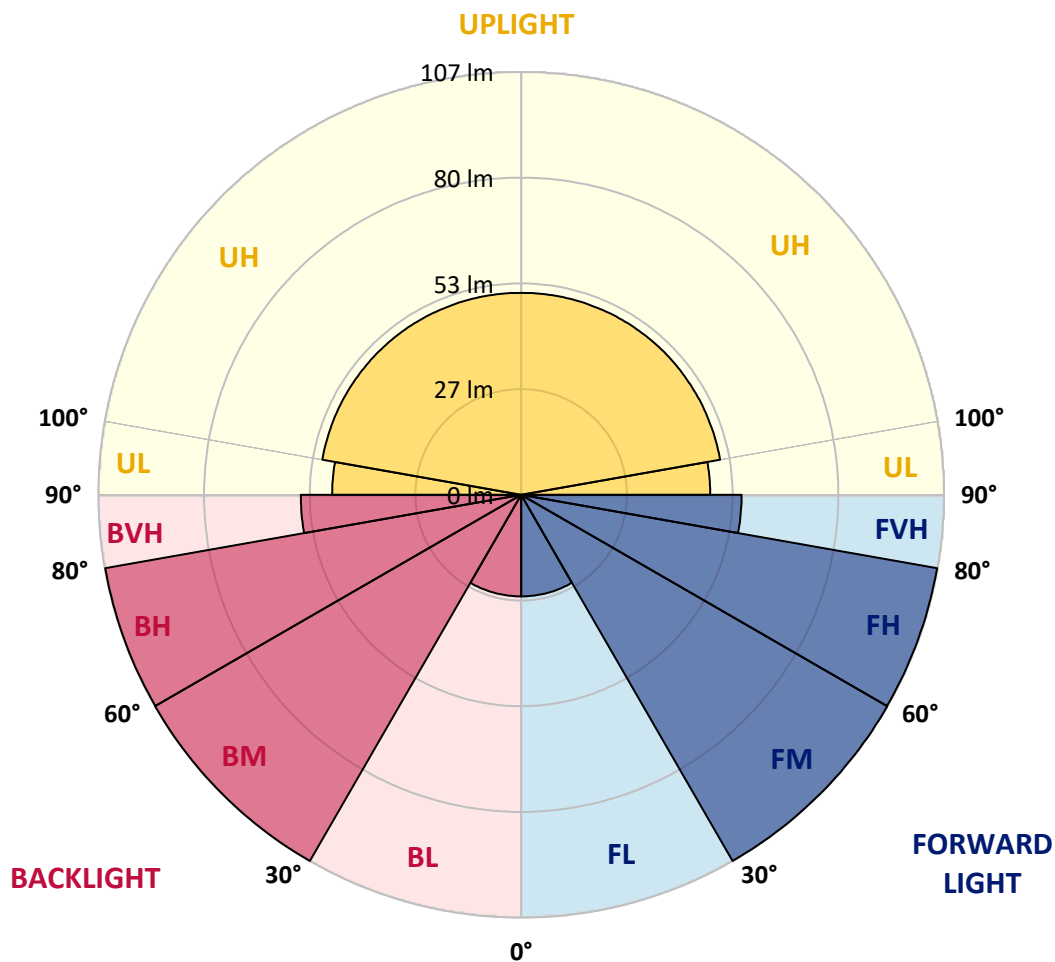
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	25.6	3.7			
FM (30°-60°)	106.7	15.4			
FH (60°-80°)	106.6	15.4			G0/660
FVH (80°-90°)	55.6	8.0			G1/100
BL (0°-30°)	25.6	3.7	B0/110		
BM (30°-60°)	106.7	15.4	B0/220		
BH (60°-80°)	106.6	15.4	B0/110		G0/660
BVH (80°-90°)	55.6	8.0			G1/100
UL (90°-100°)	47.7	6.9		U2/50	
UH (100°-180°)	51.0	7.4		U3/500	

BUG Rating: B0-U3-G1

Type V Long





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	1	2	1	1	1
7.5°	0	0	0	0	3	13	27	39	47	51	52
10°	0	0	0	1	15	36	60	76	87	92	93
12.5°	0	0	0	5	25	55	84	101	111	118	119
15°	0	0	0	7	33	67	97	113	123	128	129
17.5°	0	0	0	10	39	71	100	114	123	129	130
20°	0	0	0	12	41	72	98	111	123	131	133
22.5°	0	0	0	14	42	70	96	113	129	139	142
25°	0	0	1	15	42	69	98	118	136	148	150
27.5°	0	0	1	17	42	69	100	122	144	158	160
30°	0	0	1	17	43	71	102	128	153	170	174
32.5°	0	0	1	19	43	71	105	134	164	186	190
35°	0	0	1	19	44	73	109	141	174	200	204
37.5°	0	0	1	20	45	75	112	148	186	214	218
40°	0	0	1	21	46	77	116	152	194	224	228
42.5°	0	0	1	21	47	78	119	157	199	228	233
45°	0	0	1	22	47	79	121	161	204	233	237
47.5°	0	0	1	23	48	81	123	164	204	223	225
50°	0	0	1	23	49	81	124	164	193	214	217
52.5°	0	0	1	23	49	81	124	160	192	224	228
55°	0	0	1	23	49	81	124	153	199	235	240
57.5°	0	0	1	24	49	81	121	153	204	240	246
60°	0	0	1	24	49	81	117	156	208	245	250
62.5°	0	0	1	24	50	81	114	158	209	245	250
65°	0	0	1	25	50	81	115	160	210	242	247
67.5°	0	0	1	25	51	81	118	162	211	246	250
70°	0	0	1	25	51	81	123	170	212	248	254
72.5°	0	0	1	25	51	81	127	178	218	244	249
75°	0	0	1	25	51	81	130	186	236	251	249
77.5°	0	0	1	25	50	81	135	196	260	304	307
80°	0	0	1	25	49	81	133	193	254	302	312
82.5°	0	0	1	24	47	79	127	178	234	282	288
85°	0	0	1	23	45	74	116	153	188	224	230
87.5°	0	0	1	23	42	68	101	125	133	125	122
90°	0	0	1	22	39	61	87	97	87	73	71
92.5°	0	0	1	21	37	54	72	73	60	53	53
95°	0	0	1	21	33	47	57	54	45	43	43
97.5°	0	0	1	20	31	40	45	40	35	35	35
100°	0	0	1	19	28	33	35	31	29	29	29
102.5°	0	0	1	18	26	28	28	25	25	25	25
105°	0	0	1	17	24	24	23	23	23	22	22
107.5°	0	0	1	17	22	22	21	20	21	21	21
110°	0	0	1	17	22	22	21	20	21	21	21



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0	0	1	16	21	20	19	19	19	19	19
115°	0	0	1	15	19	19	17	17	17	16	16
117.5°	0	0	1	14	18	17	15	15	14	14	13
120°	0	0	1	13	17	17	15	13	13	12	11
122.5°	0	0	1	13	17	15	14	12	11	10	10
125°	0	0	1	12	15	15	13	11	10	9	9
127.5°	0	0	1	11	15	14	13	11	9	8	8
130°	0	0	1	10	13	14	12	11	9	8	7
132.5°	0	0	0	9	13	13	12	10	9	7	7
135°	0	0	0	8	11	12	11	9	8	7	7
137.5°	0	0	0	7	11	11	11	9	8	7	7
140°	0	0	0	7	9	10	10	9	7	7	6
142.5°	0	0	0	5	8	9	9	8	7	6	6
145°	0	0	0	5	7	8	8	7	7	6	6
147.5°	0	0	0	4	6	7	7	7	6	5	5
150°	0	0	0	3	5	5	6	6	5	5	5
152.5°	0	0	0	3	4	5	5	5	5	4	4
155°	0	0	0	2	3	3	4	4	4	3	3
157.5°	0	0	0	1	2	3	3	3	3	3	3
160°	0	0	0	1	1	2	2	2	2	2	2
162.5°	0	0	0	1	1	1	1	1	1	1	1
165°	0	0	0	0	1	1	1	1	1	1	1
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	1	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)