

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: P411970

Luminaire Tested: **CPB-VA1-42-740-U-SY**

Issue Date: 9/23/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P411970  
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-VA1-42-740-U-SY  
Description: CLEARPATH BOLLARD LUMINAIRE  
4000K, 70 CRI LEDS WITH SYMMETRIC DOUBLE SIDE LIGHTGUIDE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1035.9 lumens  
Efficiency: N/A  
Efficacy: 45.6 lumens/watt  
Luminous Opening: (L: 0.33 ' x W: 0 ' x H: 1.79 '  
IES Classification: Type V - Long - Non-Cutoff  
BUG Rating: B1 - U3 - G1

Input Watts (W): 22.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

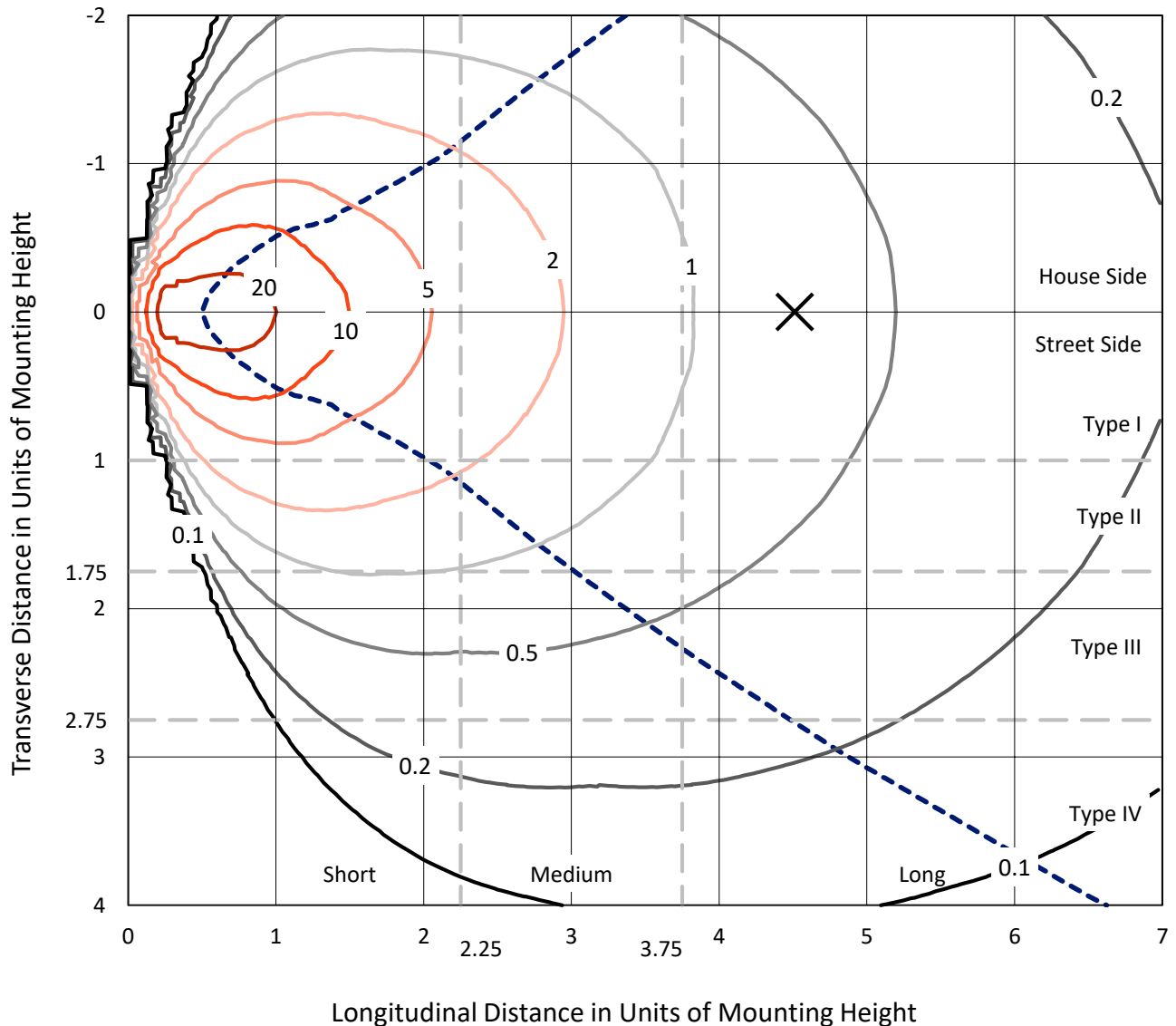


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

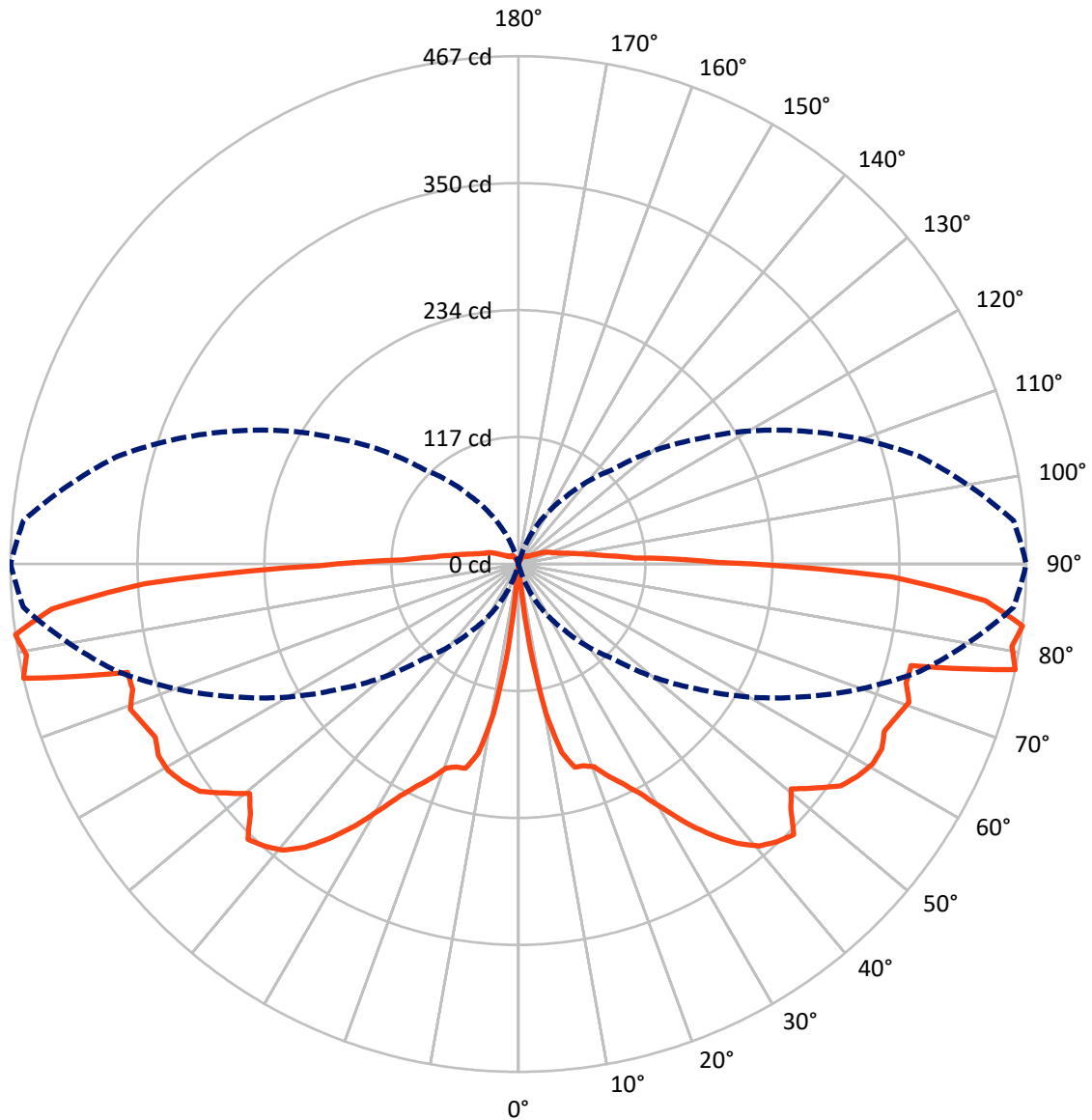


Based on 2.5 foot mounting height. Maximum calculated value = 27.5 fc  
 Type V - Long - Non-Cutoff

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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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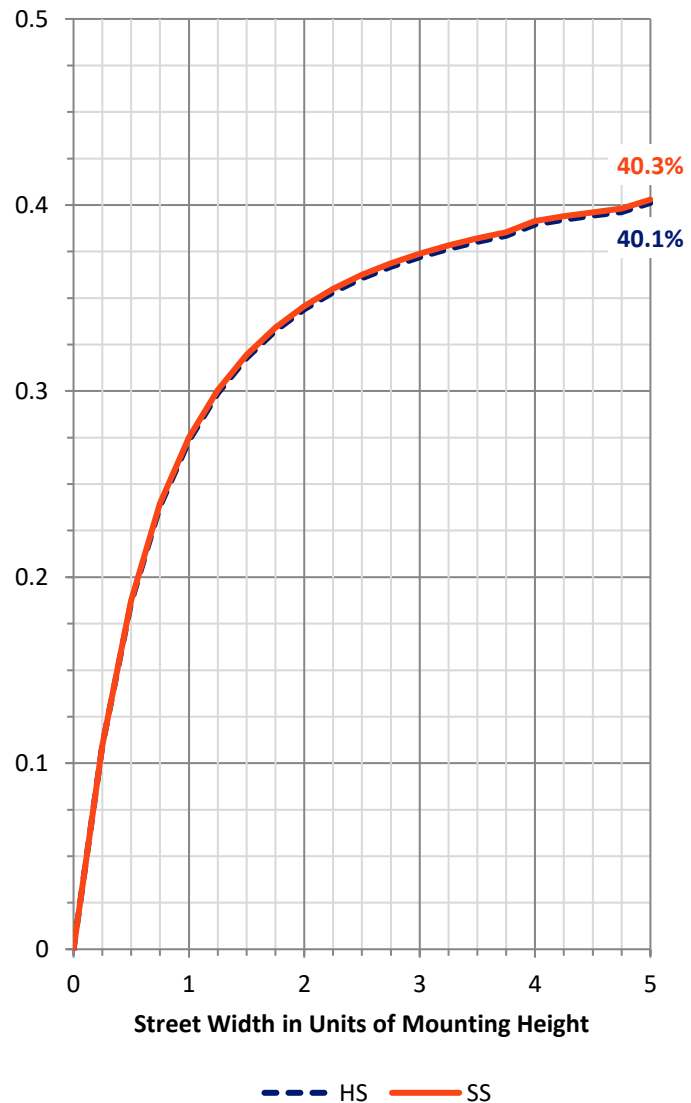
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	441.6	76.4	518.0
	% Fixture	42.6	7.4	50.0
<b>Street Side</b>	Lumens	441.6	76.4	518.0
	% Fixture	42.6	7.4	50.0
<b>Total</b>	Lumens	883.2	152.8	1035.9
	% Fixture	85.3	14.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.4	0.2
10°-20°	25.7	2.5
20°-30°	48.8	4.7
30°-40°	80.0	7.7
40°-50°	110.5	10.7
50°-60°	129.4	12.5
60°-70°	147.1	14.2
70°-80°	172.5	16.6
80°-90°	166.7	16.1
90°-100°	71.5	6.9
100°-110°	32.4	3.1
110°-120°	19.9	1.9
120°-130°	13.0	1.3
130°-140°	8.8	0.8
140°-150°	5.0	0.5
150°-160°	1.9	0.2
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	883.2	85.3
0°-180°	1035.9	100.0



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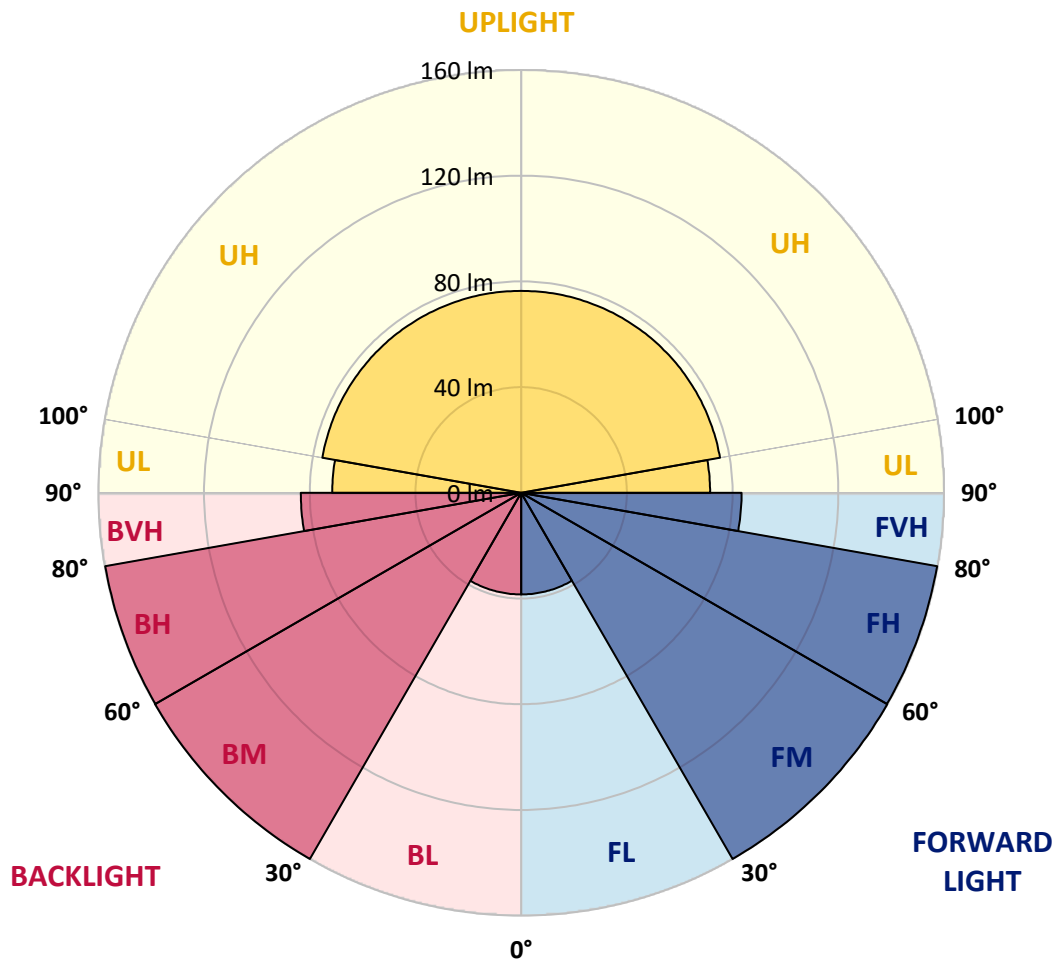
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	38.4	3.7			
FM (30°-60°)	160.0	15.4			
FH (60°-80°)	159.8	15.4			G0/660
FVH (80°-90°)	83.4	8.0			G1/100
BL (0°-30°)	38.4	3.7	B0/110		
BM (30°-60°)	160.0	15.4	B0/220		
BH (60°-80°)	159.8	15.4	B1/500		G0/660
BVH (80°-90°)	83.4	8.0			G1/100
UL (90°-100°)	71.5	6.9		U3/500	
UH (100°-180°)	76.4	7.4		U3/500	

**BUG Rating: B1-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	3	1	1	1
7.5°	0	0	0	0	4	19	41	58	70	77	78
10°	0	0	0	2	22	54	90	114	130	138	140
12.5°	0	0	0	7	38	82	126	151	167	177	178
15°	0	0	0	11	50	100	145	169	184	192	194
17.5°	0	0	0	15	58	107	150	171	185	194	195
20°	0	0	0	18	62	108	147	167	185	197	199
22.5°	0	0	0	21	63	105	144	170	194	209	212
25°	0	0	1	23	63	104	147	177	204	221	224
27.5°	0	0	1	25	63	104	150	183	215	236	239
30°	0	0	1	26	64	106	153	192	229	254	260
32.5°	0	0	1	28	65	107	158	201	245	279	284
35°	0	0	1	29	66	110	163	211	261	299	306
37.5°	0	0	1	30	68	113	168	221	279	320	326
40°	0	0	1	31	69	115	174	228	290	335	341
42.5°	0	0	1	32	70	117	178	235	298	342	349
45°	0	0	1	33	71	119	181	241	306	349	355
47.5°	0	0	1	34	72	121	184	245	306	334	337
50°	0	0	1	34	73	122	186	246	289	320	325
52.5°	0	0	1	35	74	122	186	239	288	336	342
55°	0	0	1	35	74	122	186	229	298	352	360
57.5°	0	0	1	36	74	122	182	229	306	360	368
60°	0	0	1	36	74	122	175	234	311	367	374
62.5°	0	0	1	36	75	122	171	236	313	367	375
65°	0	0	1	37	75	122	173	239	314	363	370
67.5°	0	0	1	37	76	121	177	243	316	368	375
70°	0	0	1	37	77	121	184	254	317	372	381
72.5°	0	0	1	37	77	121	190	267	326	366	373
75°	0	0	1	37	76	122	195	279	354	376	373
77.5°	0	0	1	37	75	122	202	294	390	455	460
80°	0	0	1	37	73	122	199	289	380	452	467
82.5°	0	0	1	36	71	118	190	267	351	423	431
85°	0	0	1	35	67	111	174	229	282	335	344
87.5°	0	0	1	34	63	102	152	187	199	188	183
90°	0	0	1	33	59	92	131	146	131	110	107
92.5°	0	0	1	32	55	81	108	109	90	80	80
95°	0	0	1	31	50	70	86	81	67	64	64
97.5°	0	0	1	30	46	60	68	60	53	53	53
100°	0	0	1	29	42	50	52	46	43	44	44
102.5°	0	0	1	27	39	42	42	38	37	38	38
105°	0	0	1	26	36	36	35	34	34	33	33
107.5°	0	0	1	25	33	33	31	30	31	31	31
110°	0	0	1	25	33	33	31	30	31	31	31



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0	0	1	24	31	30	28	28	28	28	28
115°	0	0	1	22	29	28	25	25	25	24	24
117.5°	0	0	1	21	27	26	23	22	21	21	20
120°	0	0	1	20	26	25	22	20	19	18	17
122.5°	0	0	1	19	25	23	21	18	17	15	15
125°	0	0	1	18	23	22	20	17	15	13	13
127.5°	0	0	1	16	22	21	19	16	14	12	12
130°	0	0	1	15	20	21	18	16	13	12	11
132.5°	0	0	0	14	19	19	18	15	13	11	10
135°	0	0	0	12	17	18	17	14	12	10	10
137.5°	0	0	0	11	16	17	16	14	12	10	10
140°	0	0	0	10	14	15	15	13	11	10	9
142.5°	0	0	0	8	12	14	14	12	11	9	9
145°	0	0	0	7	11	12	12	11	10	9	9
147.5°	0	0	0	6	9	10	11	10	9	8	8
150°	0	0	0	5	7	8	9	9	8	8	8
152.5°	0	0	0	4	6	7	7	7	7	6	6
155°	0	0	0	3	5	5	6	6	6	5	5
157.5°	0	0	0	2	3	4	4	4	4	4	4
160°	0	0	0	1	2	3	3	3	3	3	3
162.5°	0	0	0	1	2	2	2	2	2	2	2
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)