

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: LTL TEST NUMBER 06665

Luminaire Tested: **1800-XX-50PAR20-SP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: LTL TEST NUMBER 06665
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1800-XX-50PAR20-SP
Description: EXTRUDED ALUMINUM HOUSING, FROSTED GLASS DIFFUSER ABOVE LAMP, CLEAR PATTERNED GLASS ENCLOSURE.
Light Source: ONE USHIO 50PAR20SPOT/120VOLT/#1001505 50 WATT PAR20 HALOGEN RATED AT 520 LUMENS.
Ballast/Driver: -

Summary

Lumens per Lamp: 520 (1 lamp)
Luminaire Lumens: 19.6 lumens
Efficiency: 3.8%
Efficacy: 0.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 0.27' x H: 0.65')
IES Classification: Type I - Short - Semi-Cutoff
BUG Rating: B0 - U2 - G0

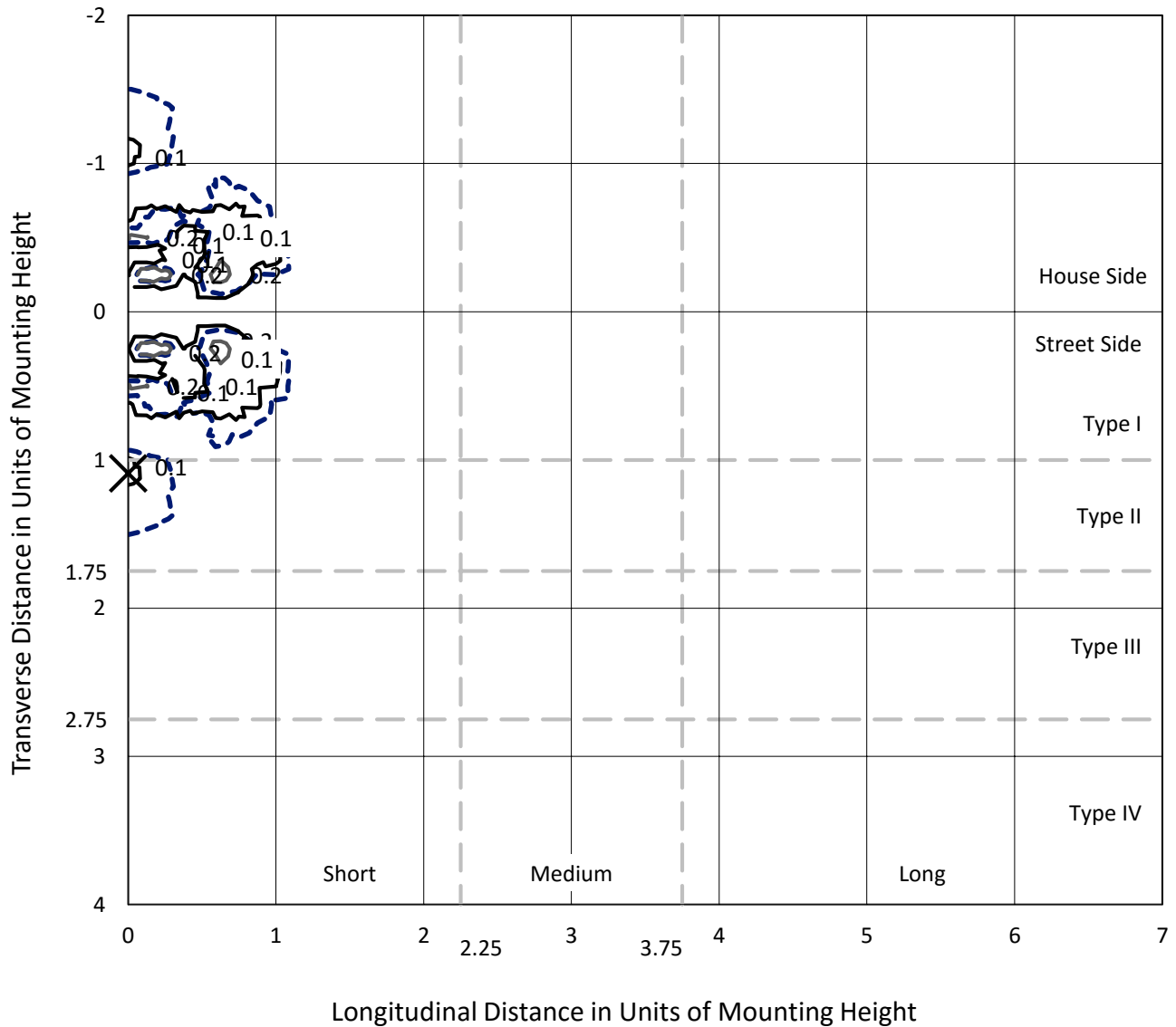
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

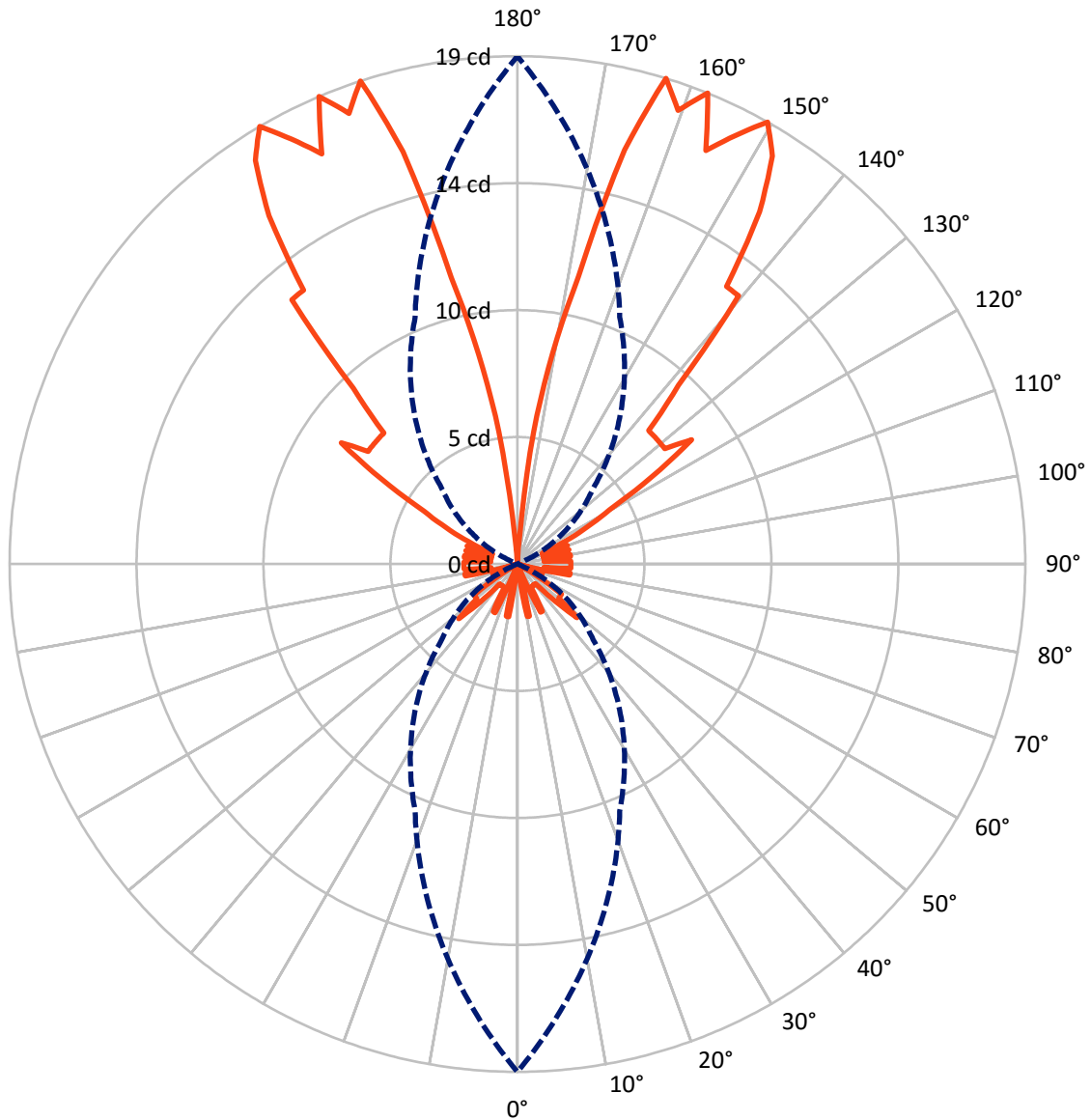
✕ Max cd
 - - - 1/2 Max cd



Based on 2.6 foot mounting height. Maximum calculated value = 0.3 fc
 Type I - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 150-Deg Vertical

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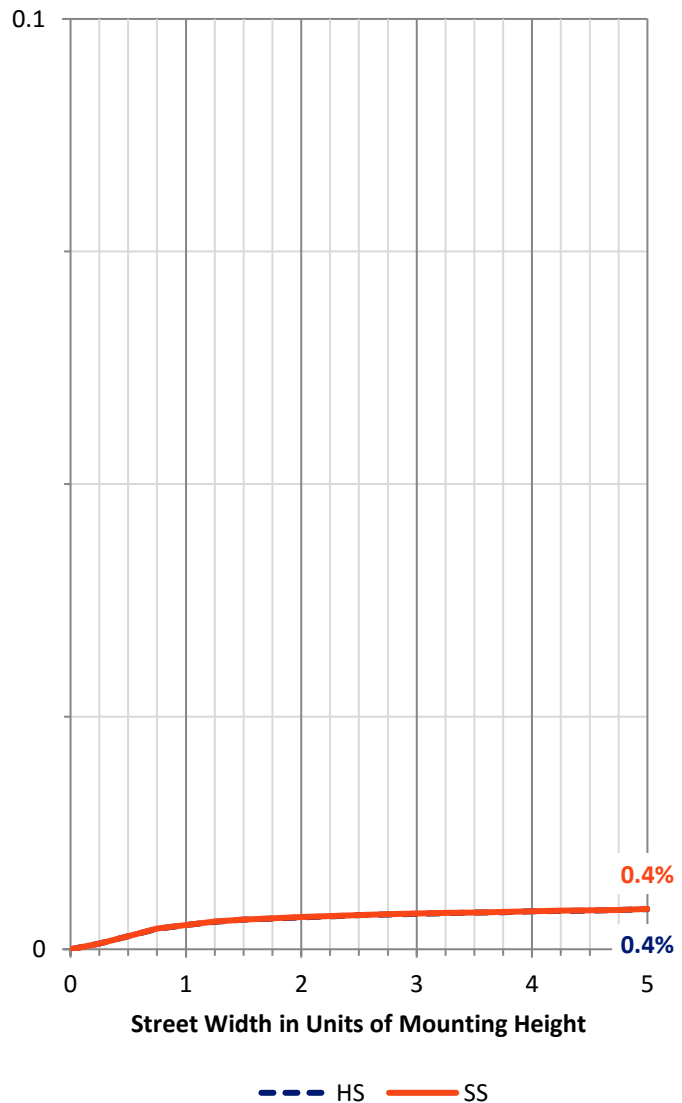
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2.5	7.3	9.8
	% Lamp	0.5	1.4	1.9
Street Side	Lumens	2.5	7.3	9.8
	% Lamp	0.5	1.4	1.9
Total	Lumens	4.9	14.7	19.6
	% Lamp	1.0	2.8	3.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.1	0.0
10°-20°	0.2	1.2	0.0
20°-30°	0.4	2.0	0.1
30°-40°	0.9	4.7	0.2
40°-50°	1.1	5.6	0.2
50°-60°	0.6	3.3	0.1
60°-70°	0.4	1.9	0.1
70°-80°	0.7	3.4	0.1
80°-90°	0.6	3.0	0.1
90°-100°	0.6	3.0	0.1
100°-110°	0.7	3.7	0.1
110°-120°	0.8	4.3	0.2
120°-130°	2.3	11.7	0.4
130°-140°	2.8	14.3	0.5
140°-150°	3.3	16.7	0.6
150°-160°	2.5	12.6	0.5
160°-170°	1.4	7.4	0.3
170°-180°	0.2	1.1	0.0
0°-90°	4.9	25.2	1.0
0°-180°	19.6	100.0	3.8

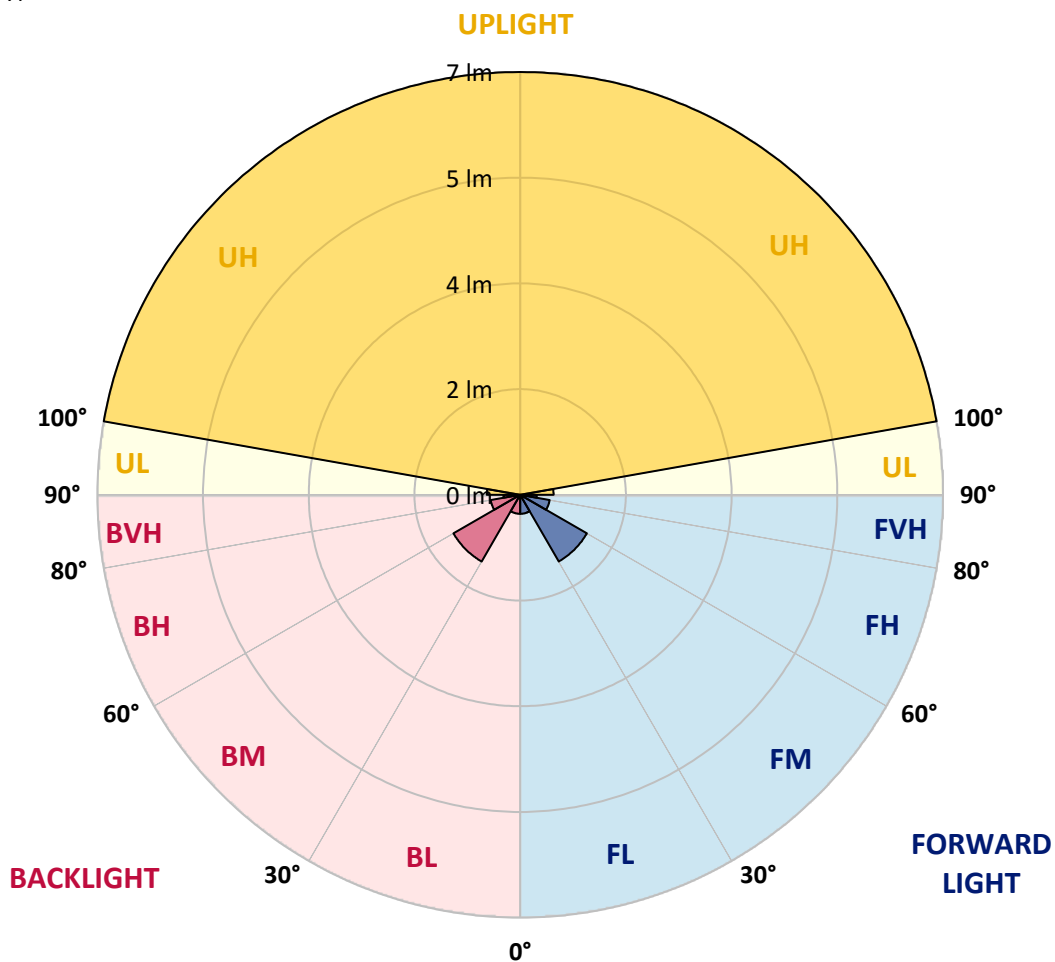


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	0.3	0.1			
FM (30°-60°)	1.3	0.3			
FH (60°-80°)	0.5	0.1			G0/660
FVH (80°-90°)	0.3	0.1			G0/10
BL (0°-30°)	0.3	0.1	B0/110		
BM (30°-60°)	1.3	0.3	B0/220		
BH (60°-80°)	0.5	0.1	B0/110		G0/110
BVH (80°-90°)	0.3	0.1			G0/10
UL (90°-100°)	0.6	0.1		U1/10	
UH (100°-180°)	7.3	1.4		U1/10	
Trapped Light	500.4	96.2			

BUG Rating: B0-U2-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0	0	0	0	0
2.5°	0	0	0	0	0
5°	0	0	0	0	0
7.5°	0	1	0	0	0
10°	2	1	0	0	0
12.5°	2	3	1	0	0
15°	0	3	2	0	0
17.5°	0	0	2	0	0
20°	0	0	2	0	0
22.5°	0	0	1	0	0
25°	2	1	0	2	0
27.5°	2	2	0	2	0
30°	1	2	0	2	0
32.5°	1	2	0	3	0
35°	1	2	1	3	0
37.5°	1	1	2	3	0
40°	1	1	2	2	0
42.5°	1	0	2	2	0
45°	2	1	2	2	0
47.5°	3	1	2	3	0
50°	2	1	1	1	0
52.5°	2	1	1	1	0
55°	2	1	1	0	0
57.5°	1	1	1	0	0
60°	0	0	0	0	0
62.5°	1	1	0	0	0
65°	0	1	0	0	0
67.5°	1	1	1	0	0
70°	0	1	1	0	0
72.5°	1	1	1	0	0
75°	0	1	1	0	0
77.5°	2	1	1	0	0
80°	2	1	1	0	0
82.5°	1	1	1	0	0
85°	2	1	1	0	0
87.5°	2	0	0	0	0
90°	2	0	0	0	0
92.5°	2	1	1	0	0
95°	1	0	0	0	0
97.5°	2	1	1	0	0
100°	2	1	1	0	0
102.5°	1	1	1	0	0
105°	2	1	1	0	0
107.5°	1	1	1	0	0
110°	2	1	1	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1	1	1	0	0
115°	2	1	1	0	0
117.5°	3	2	0	0	0
120°	4	3	1	0	0
122.5°	6	4	3	0	0
125°	8	4	2	0	0
127.5°	7	5	3	0	0
130°	7	7	3	0	0
132.5°	7	8	4	0	0
135°	7	7	3	0	0
137.5°	9	7	3	0	0
140°	13	6	3	0	0
142.5°	13	7	3	0	0
145°	16	9	5	1	0
147.5°	18	10	5	1	0
150°	19	10	4	0	0
152.5°	18	9	3	0	0
155°	17	8	3	0	0
157.5°	19	9	3	0	0
160°	18	10	4	1	0
162.5°	19	9	4	1	0
165°	16	9	4	1	0
167.5°	11	7	1	0	0
170°	8	8	1	3	0
172.5°	5	4	1	2	0
175°	1	1	1	3	1
177.5°	0	0	1	2	1
180°	1	1	1	1	1

(END OF REPORT)