

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: McGRAW-EDISON

Report Number: 769316

Luminaire Tested: **BRC-70-MP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 769316
Test Lab: COOPER LIGHTING
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: BRC-70-MP
Description: 70W MP ROUND ARCHITECTURAL BOLLARD-SYMMETRIC DISTRIBUTION
Light Source: 70 WATT PULSE-START CLEAR ED-17 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 5900 (1 lamp)
Luminaire Lumens: 2796.9 lumens
Efficiency: 47.4%
Efficacy: 40.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.33')
IES Classification: Type V - Short - Cutoff
BUG Rating: B2 - U3 - G1

Input Watts (W): 70
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

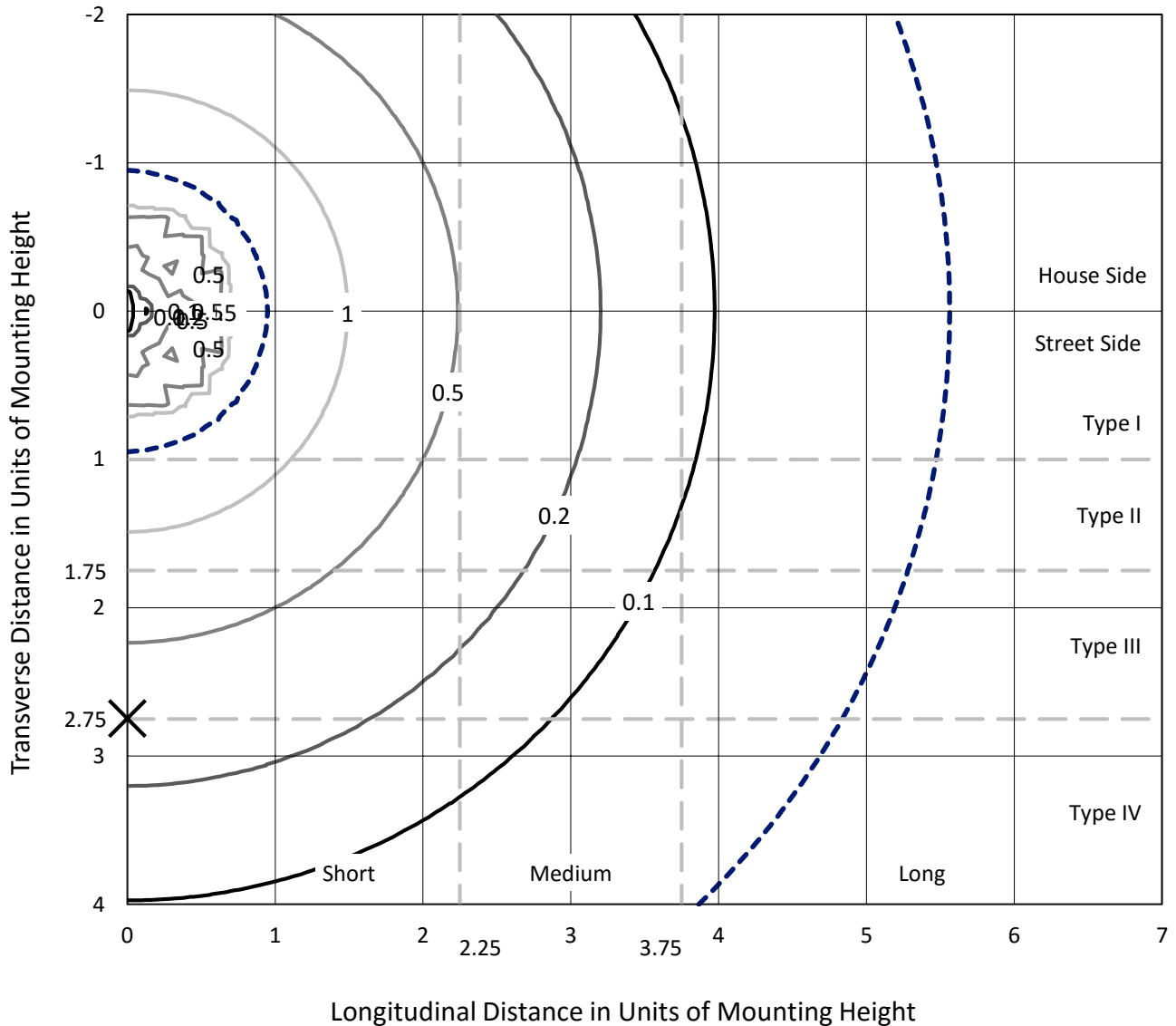




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Iso-Footcandle Lines of Horizontal Illumination

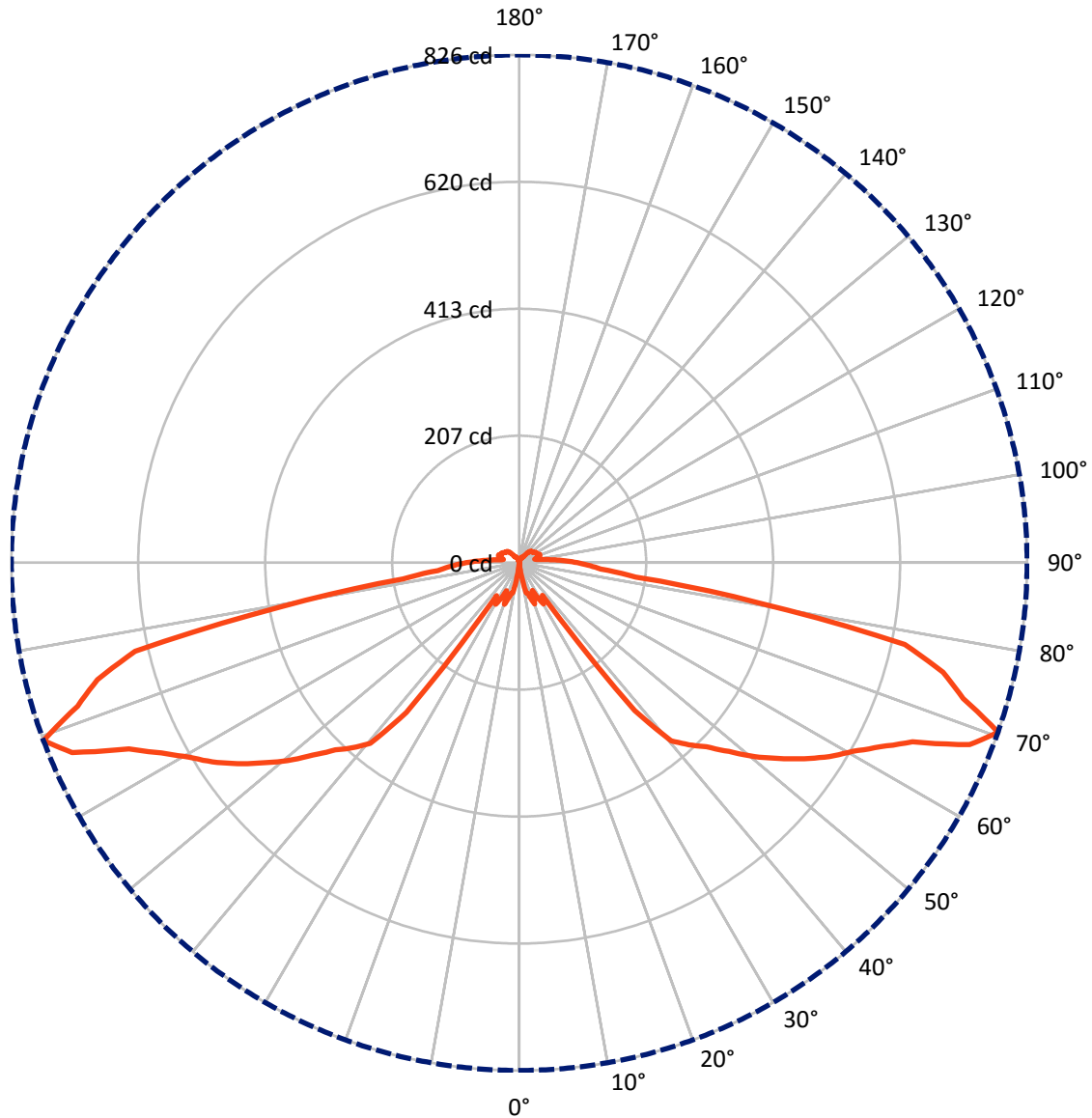
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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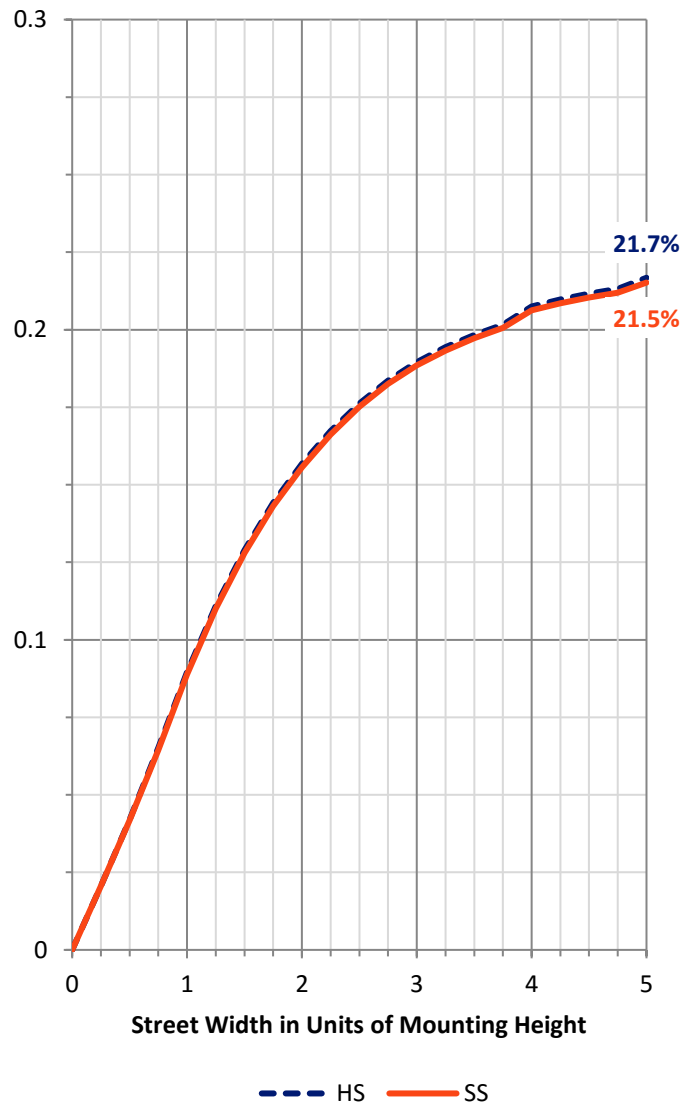
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1306.4	92.0	1398.5
	% Lamp	22.1	1.6	23.7
Street Side	Lumens	1306.4	92.0	1398.5
	% Lamp	22.1	1.6	23.7
Total	Lumens	2612.8	184.1	2796.9
	% Lamp	44.3	3.1	47.4

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.9	0.0	0.0
10°-20°	15.6	0.6	0.3
20°-30°	28.4	1.0	0.5
30°-40°	109.8	3.9	1.9
40°-50°	336.0	12.0	5.7
50°-60°	505.0	18.1	8.6
60°-70°	715.2	25.6	12.1
70°-80°	717.5	25.7	12.2
80°-90°	184.3	6.6	3.1
90°-100°	59.1	2.1	1.0
100°-110°	32.6	1.2	0.6
110°-120°	33.0	1.2	0.6
120°-130°	26.4	0.9	0.4
130°-140°	19.3	0.7	0.3
140°-150°	8.3	0.3	0.1
150°-160°	4.2	0.1	0.1
160°-170°	1.0	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-90°	2612.8	93.4	44.3
0°-180°	2796.9	100.0	47.4

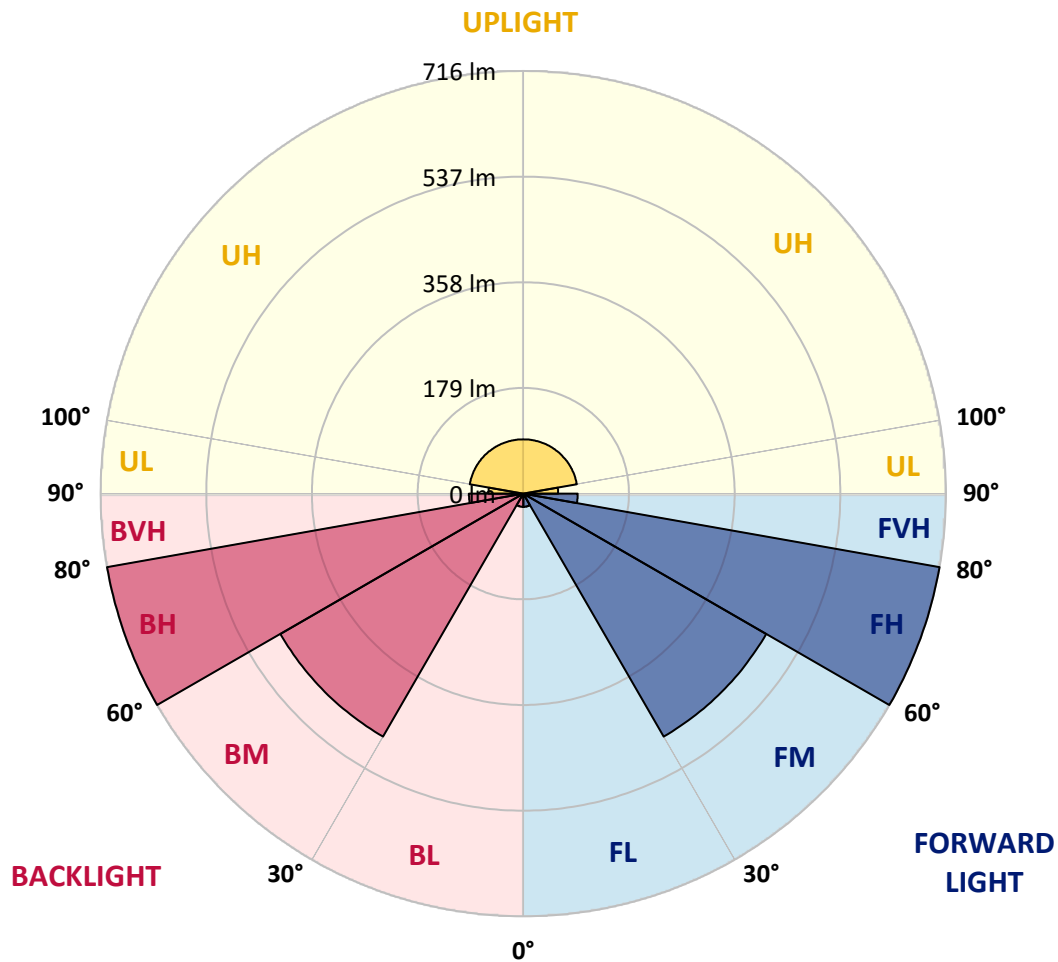


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22.5	0.4			
FM (30°-60°)	475.4	8.1			
FH (60°-80°)	716.4	12.1			G1/1800
FVH (80°-90°)	92.2	1.6			G1/100
BL (0°-30°)	22.5	0.4	B0/110		
BM (30°-60°)	475.4	8.1	B1/1000		
BH (60°-80°)	716.4	12.1	B2/1000		G1/1800
BVH (80°-90°)	92.2	1.6			G1/100
UL (90°-100°)	59.1	1.0		U3/500	
UH (100°-180°)	92.0	1.6		U3/500	
Trapped Light	3103.1	52.6			

BUG Rating: B2-U3-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	2
2.5°	1
5°	1
7.5°	8
10°	29
12.5°	50
15°	52
17.5°	61
20°	72
22.5°	54
25°	50
27.5°	65
30°	78
32.5°	71
35°	65
37.5°	305
40°	381
42.5°	405
45°	427
47.5°	459
50°	496
52.5°	529
55°	563
57.5°	595
60°	623
62.5°	659
65°	703
67.5°	790
70°	826
72.5°	755
75°	712
77.5°	641
80°	394
82.5°	191
85°	133
87.5°	111
90°	90
92.5°	69
95°	51
97.5°	37
100°	29
102.5°	26
105°	30
107.5°	35
110°	36



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	35
115°	32
117.5°	32
120°	32
122.5°	31
125°	29
127.5°	28
130°	27
132.5°	27
135°	26
137.5°	23
140°	20
142.5°	14
145°	12
147.5°	11
150°	10
152.5°	10
155°	9
157.5°	8
160°	7
162.5°	4
165°	3
167.5°	2
170°	2
172.5°	1
175°	1
177.5°	0
180°	0

(END OF REPORT)