

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 765818T

Luminaire Tested: **GMX40SXXAR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765818T
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX40SXXAR
Description: 400S AREA ROUND
Light Source: 400W HPS CL E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 50000 (1 lamp)
Luminaire Lumens: 36151.2 lumens
Efficiency: 72.3%
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.81' x L: 1.81' x H: 0.83')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U3 - G5

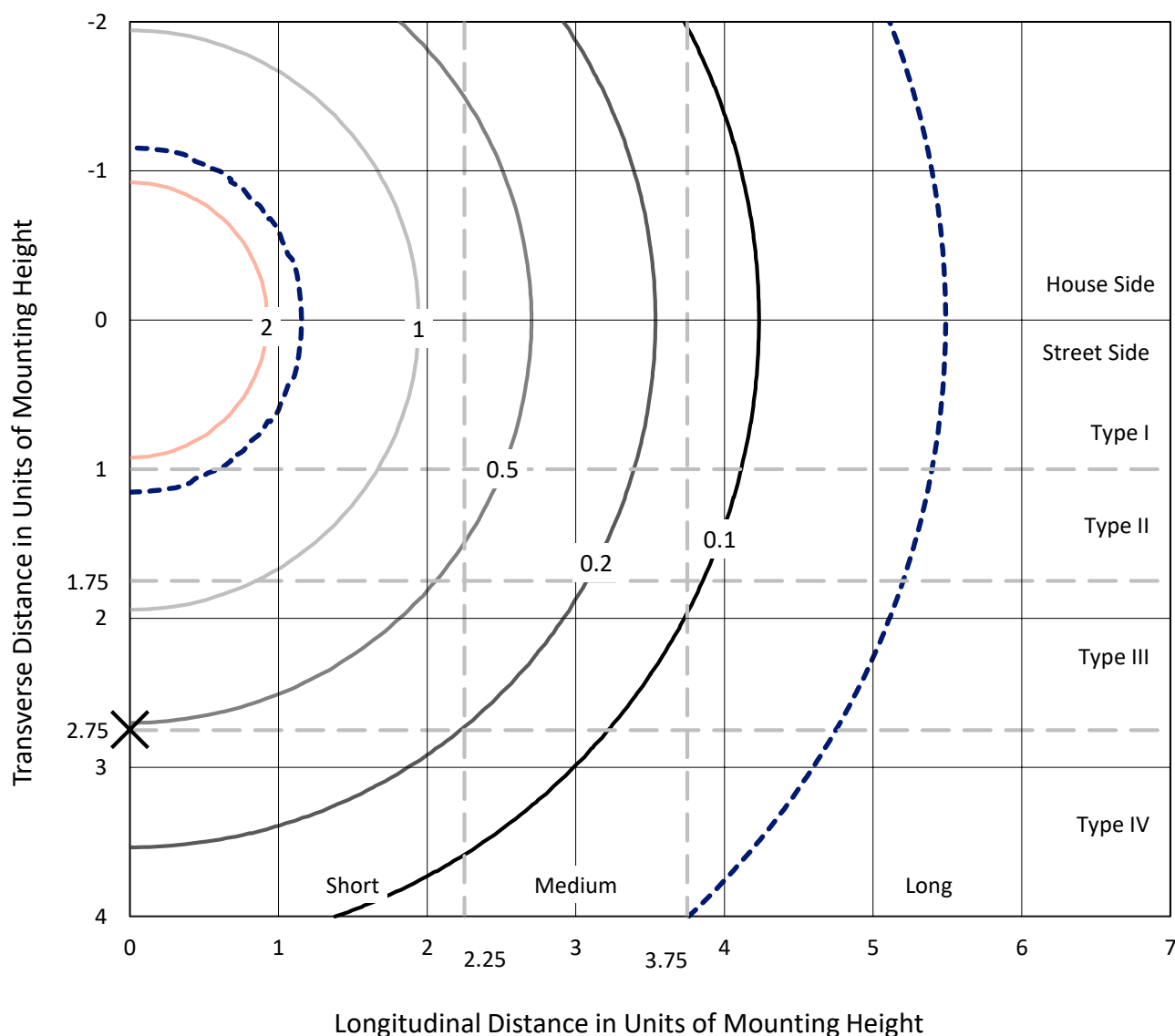
Input Watts (W): 400
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

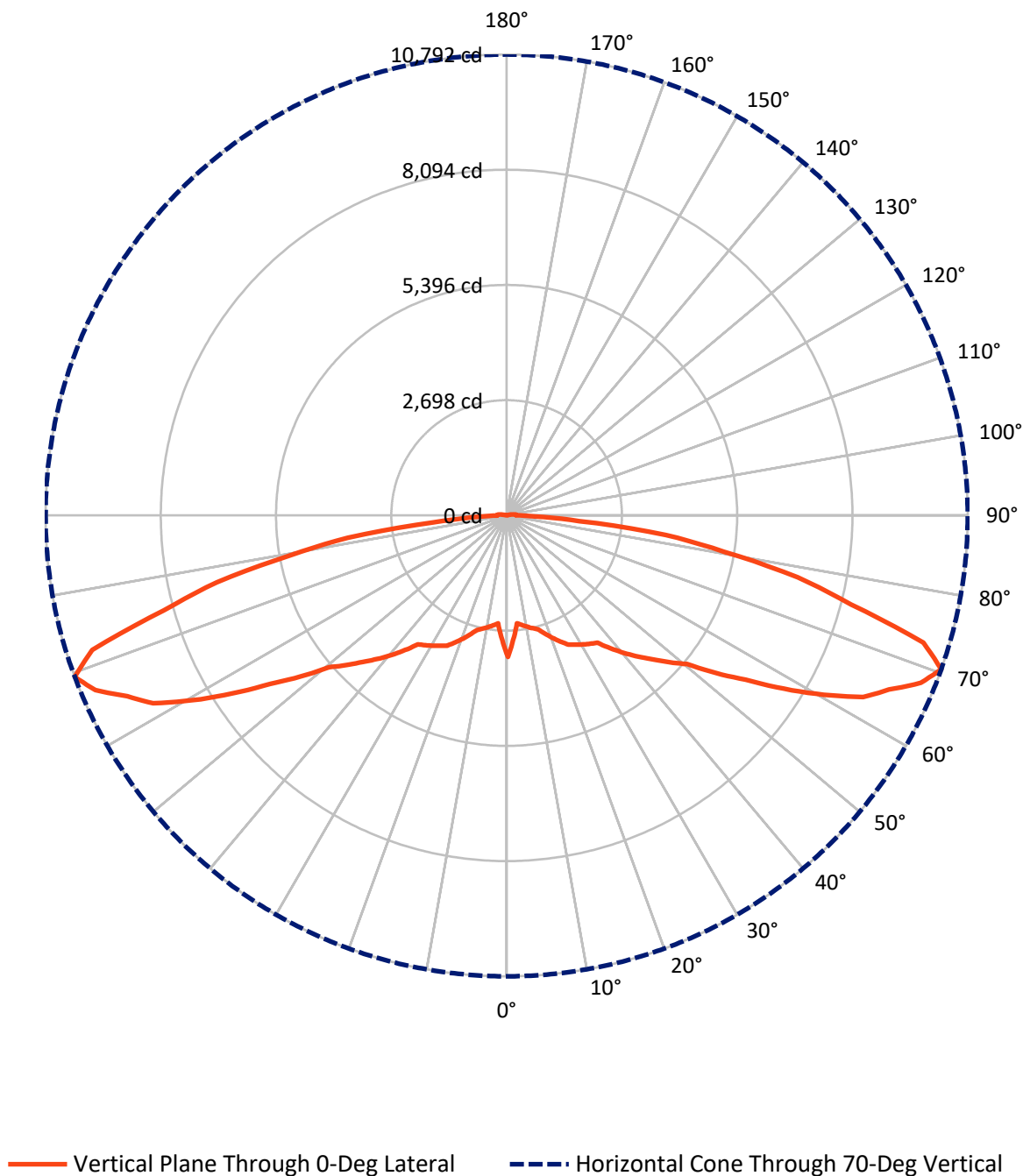
× Max cd
 --- 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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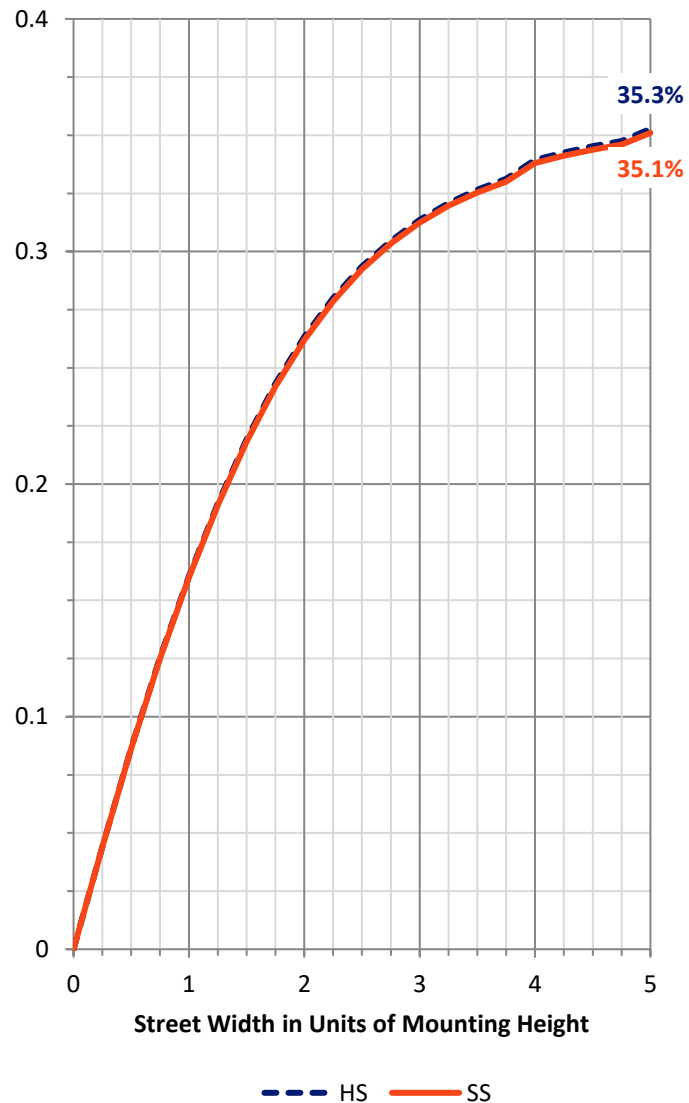
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17950.7	125.0	18075.6
	% Lamp	35.9	0.2	36.2
Street Side	Lumens	17950.7	125.0	18075.6
	% Lamp	35.9	0.2	36.2
Total	Lumens	35901.3	249.9	36151.2
	% Lamp	71.8	0.5	72.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	255.5	0.7	0.5
10°-20°	809.5	2.2	1.6
20°-30°	1519.4	4.2	3.0
30°-40°	2431.3	6.7	4.9
40°-50°	3759.2	10.4	7.5
50°-60°	6206.2	17.2	12.4
60°-70°	9772.8	27.0	19.5
70°-80°	8827.1	24.4	17.7
80°-90°	2396.1	6.6	4.8
90°-100°	209.3	0.6	0.4
100°-110°	63.2	0.2	0.1
110°-120°	4.0	0.0	0.0
120°-130°	0.7	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	35901.3	99.3	71.8
0°-180°	36151.2	100.0	72.3

Coefficient of Utilization



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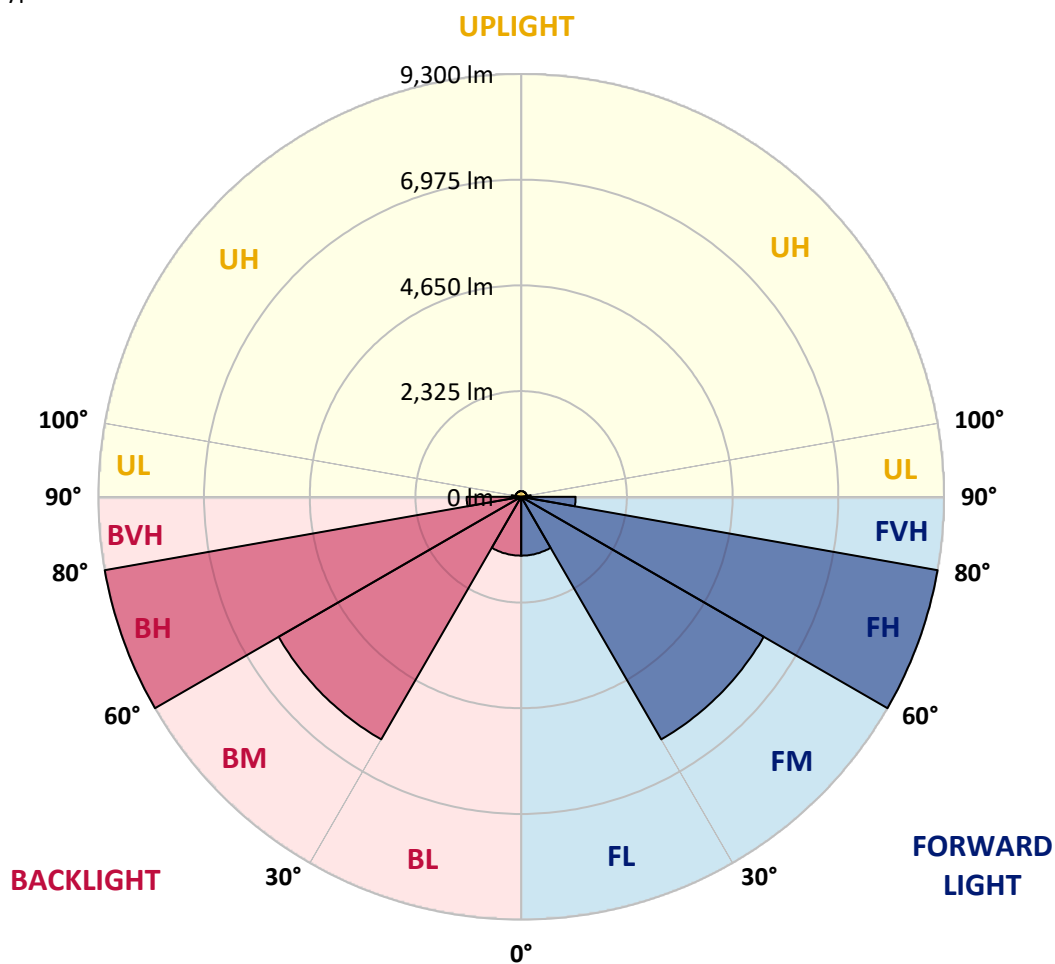
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.0	2.6			
FM	(30°-60°)	6160.3	12.3			
FH	(60°-80°)	9300.0	18.6			G4/12000
FVH	(80°-90°)	1198.1	2.4			G5
BL	(0°-30°)	1294.0	2.6	B3/2500		
BM	(30°-60°)	6160.3	12.3	B4/8500		
BH	(60°-80°)	9300.0	18.6	B5		G4/12000
BVH	(80°-90°)	1198.1	2.4			G5
UL	(90°-100°)	209.3	0.4		U3/500	
UH	(100°-180°)	125.0	0.2		U3/500	
Trapped Light		13848.8	27.7			

BUG Rating: B5-U3-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	3312
5°	2535
15°	2769
25°	3350
35°	3661
45°	4809
50°	5473
55°	6788
60°	8528
62.5°	9368
65°	9836
67.5°	10461
70°	10792
72.5°	10200
75°	8324
77.5°	6963
80°	5159
82.5°	3751
85°	1714
87.5°	656
90°	222
95°	216
105°	10
115°	3
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0

(END OF REPORT)