

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: 766032_350MP

Luminaire Tested: **GMX35PXXAS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 766032_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXXAS
Description: 400MH TYPE VERTICAL AREA SQUARE
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

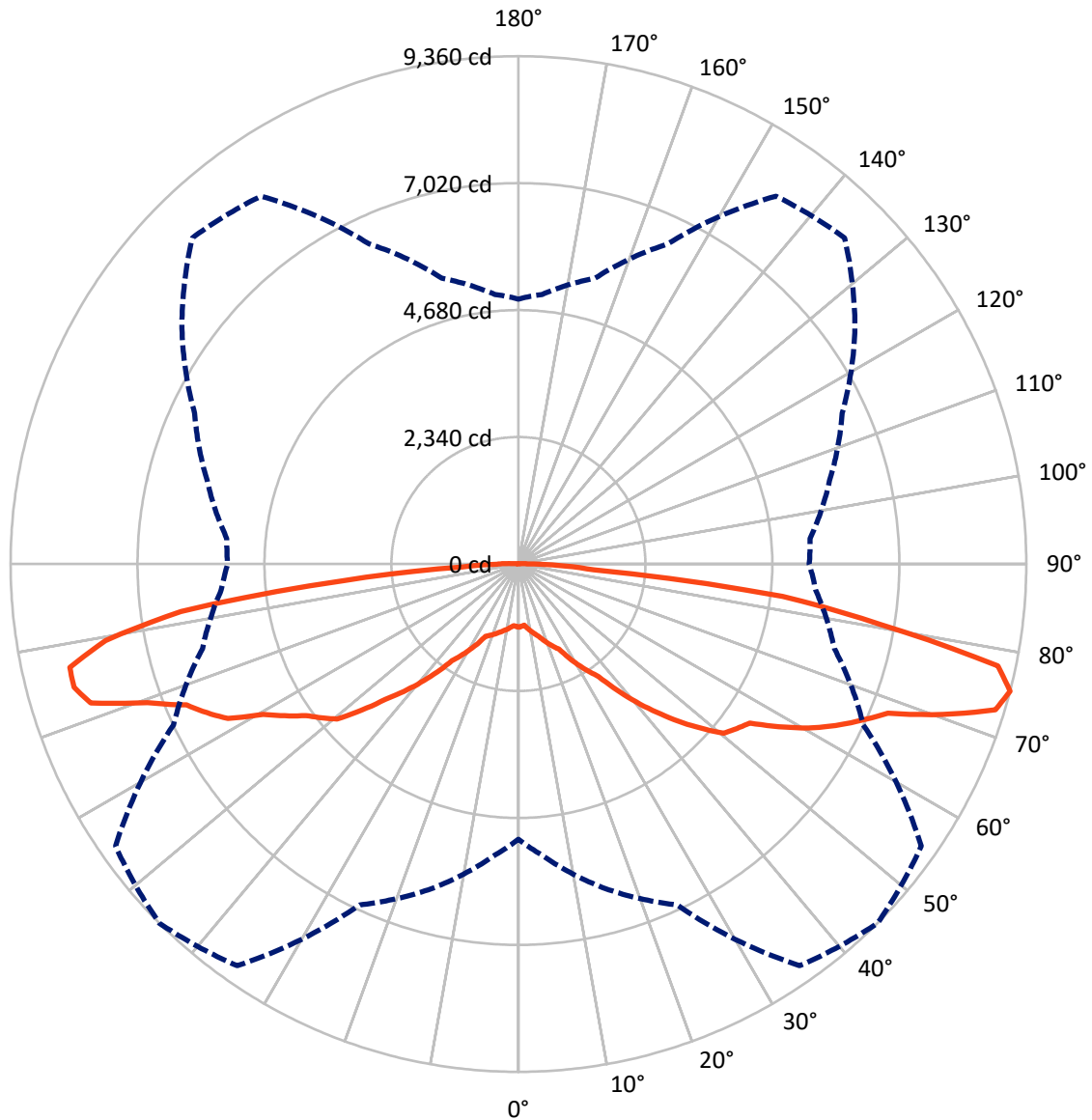
Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 24982.6 lumens
Efficiency: 67.5%
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.81' x L: 1.81' x H: 0.83')
IES Classification: Type V - Medium - Non-Cutoff
BUG Rating: B5 - U3 - G5

Input Watts (W): 397
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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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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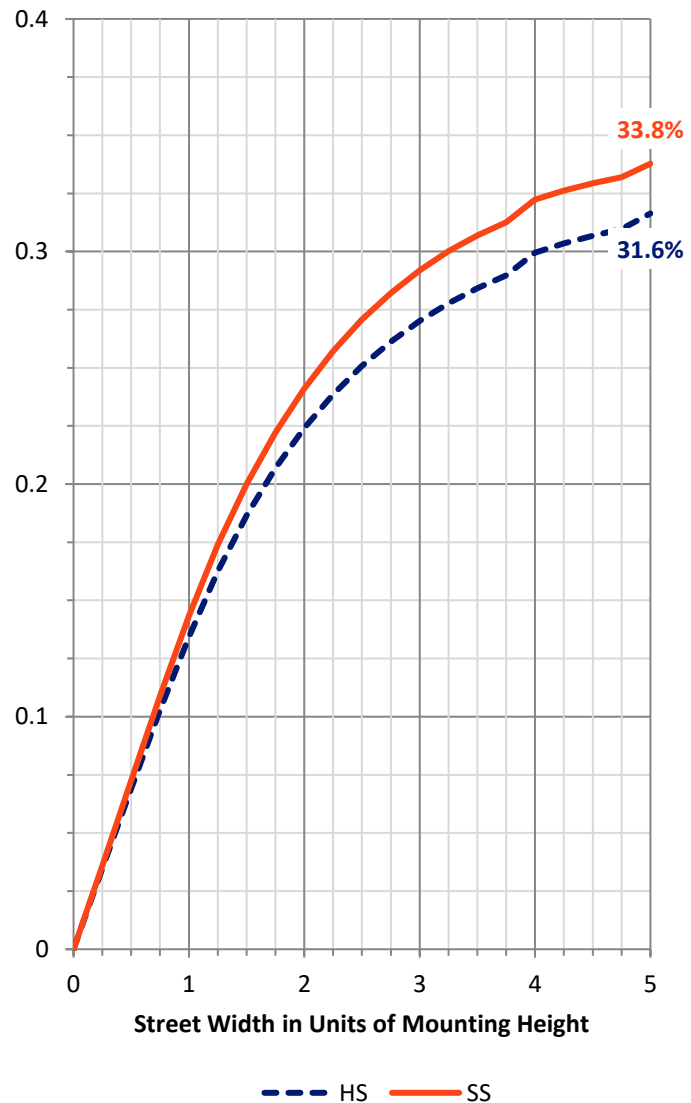
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12094.2	73.5	12167.7
	% Lamp	32.7	0.2	32.9
Street Side	Lumens	12761.6	53.3	12814.9
	% Lamp	34.5	0.1	34.6
Total	Lumens	24855.8	126.8	24982.6
	% Lamp	67.2	0.3	67.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	112.0	0.4	0.3
10°-20°	375.1	1.5	1.0
20°-30°	769.8	3.1	2.1
30°-40°	1526.1	6.1	4.1
40°-50°	2843.3	11.4	7.7
50°-60°	4314.5	17.3	11.7
60°-70°	5983.9	24.0	16.2
70°-80°	6850.6	27.4	18.5
80°-90°	2162.4	8.7	5.8
90°-100°	104.8	0.4	0.3
100°-110°	24.3	0.1	0.1
110°-120°	4.1	0.0	0.0
120°-130°	0.5	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°	24855.8	99.5	67.2
0°-180°	24982.6	100.0	67.5

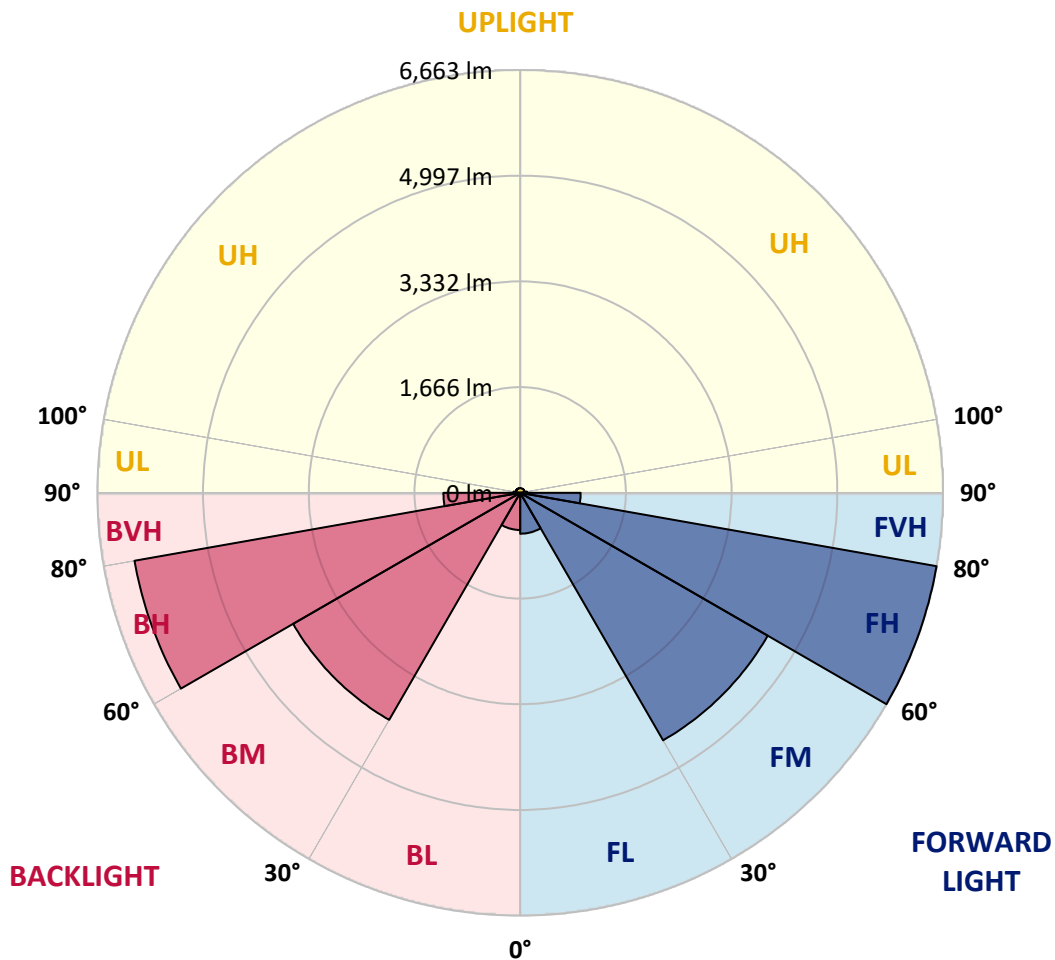


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.8	1.7			
FM (30°-60°)	4504.4	12.2			
FH (60°-80°)	6663.2	18.0			G3/7500
FVH (80°-90°)	953.1	2.6			G5
BL (0°-30°)	585.8	1.6	B2/1000		
BM (30°-60°)	4131.2	11.2	B3/5000		
BH (60°-80°)	6171.3	16.7	B5		G3/7500
BVH (80°-90°)	1209.4	3.3			G5
UL (90°-100°)	104.8	0.3		U3/500	
UH (100°-180°)	73.5	0.2		U3/500	
Trapped Light	12017.4	32.5			

BUG Rating: B5-U3-G5
 Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4
5°	1151.1	1102.8	1118.2	1118.2	1109.0	1133.6	1147.0	1130.6	1136.7	1126.4	1156.2
15°	1243.6	1228.2	1338.2	1413.2	1364.9	1379.3	1385.4	1353.6	1307.3	1317.6	1323.8
25°	1532.4	1509.8	1550.9	1653.7	1717.4	1740.0	1750.3	1705.1	1679.4	1592.0	1561.2
35°	2239.5	2141.9	2265.2	2428.6	2548.9	2548.9	2480.0	2476.9	2334.1	2287.8	2270.4
45°	3503.7	3549.9	3526.3	3964.1	3939.5	4133.7	4015.5	4079.2	3759.6	3875.7	3532.5
50°	4241.6	4006.3	4140.9	4673.3	4796.6	4903.5	4709.3	4852.1	4381.4	4413.3	4276.6
55°	4599.3	4256.0	4520.2	5016.6	5133.7	5172.8	5133.7	5075.2	4714.4	4702.1	4492.4
60°	4970.3	4860.4	5186.2	5843.9	6099.9	6139.9	5895.3	5749.4	5305.4	5126.6	5070.0
62.5°	5285.9	5200.6	5530.5	6278.7	6560.3	6560.3	6449.3	6225.2	5717.5	5431.8	5329.0
65°	5498.6	5411.2	5792.6	6580.9	6866.6	6946.7	6857.3	6469.9	5917.9	5552.1	5472.9
67.5°	5636.3	5557.2	5958.0	6857.3	7290.0	7343.5	7216.0	6767.9	6065.9	5727.8	5648.7
70°	5832.6	5822.4	6426.7	7256.1	8013.6	8305.5	8073.2	7108.1	6366.1	5885.1	5842.9
72.5°	5736.0	5864.5	6847.1	7450.4	8824.5	9193.5	8906.7	7479.1	6526.4	6062.9	5868.6
75°	5073.1	5410.2	6194.4	6933.4	9037.2	9360.0	9064.0	7012.5	6027.9	5497.6	5359.9
77.5°	4537.6	4599.3	4671.2	5959.1	8902.6	9035.2	8374.3	6229.4	4980.6	4990.9	4898.4
80°	3321.8	3314.6	3484.2	4172.8	6560.3	6780.2	6055.7	3964.1	3623.9	3307.4	4261.2
82.5°	2445.1	2190.2	2193.3	2543.7	3570.5	4901.5	3843.9	2925.1	2096.7	2069.9	2920.9
85°	693.7	908.6	1003.1	1241.6	1377.2	1394.7	1537.6	1223.1	906.5	879.8	1059.6
87.5°	288.8	314.5	425.5	470.7	599.2	739.0	691.7	585.8	412.1	309.4	342.2
90°	102.8	104.8	138.8	169.6	173.7	176.8	223.0	187.1	154.2	125.4	120.2
95°	27.7	33.9	64.8	68.9	84.3	58.6	87.4	63.7	51.4	33.9	25.7
105°	3.1	5.1	15.4	22.6	12.3	7.2	7.2	15.4	10.3	3.1	2.1
115°	3.1	3.1	3.1	3.1	3.1	3.1	2.1	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4	1163.4
5°	1152.1	1151.1	1143.9	1140.8	1138.8	1146.0	1176.8	1156.2	1167.6	1154.2
15°	1308.4	1336.1	1325.8	1310.4	1289.9	1244.6	1210.7	1172.7	1128.5	1113.1
25°	1558.1	1512.9	1495.4	1487.2	1463.6	1440.9	1401.9	1372.1	1287.8	1295.0
35°	2213.8	2191.2	2172.7	2203.6	2160.4	2101.8	2029.9	1973.3	1894.2	1868.5
45°	3625.0	3802.8	3473.9	3797.6	3493.4	3371.1	3276.6	3307.4	3168.6	3150.1
50°	4269.4	4413.3	4402.0	4597.2	4397.9	4202.6	4034.0	3893.2	3836.7	3692.8
55°	4520.2	4717.5	4878.9	4903.5	4809.0	4563.3	4513.0	4243.7	4130.6	4176.9
60°	5034.1	5217.0	5368.1	5523.3	5459.6	5298.2	5108.1	4904.6	4551.0	4609.6
62.5°	5308.5	5466.7	5708.3	5956.0	6065.9	5853.2	5588.0	5162.5	4904.6	4825.4
65°	5502.7	5667.2	6047.4	6229.4	6363.0	6120.4	5812.1	5346.5	4978.6	4970.3
67.5°	5638.4	5837.8	6311.6	6500.7	6647.7	6373.2	6048.5	5416.4	5040.2	5014.5
70°	5858.3	6055.7	6567.5	6943.7	7297.2	7085.5	6421.6	5634.3	5211.9	5186.2
72.5°	5935.4	6318.8	7000.2	7671.3	8288.0	8046.5	6908.7	5858.3	5354.7	5190.3
75°	5394.8	5937.5	6585.0	7570.6	8499.7	8274.6	6508.9	5452.4	4987.8	4884.0
77.5°	4642.5	5086.5	5792.6	7122.5	8485.3	8367.1	5833.7	4661.0	4276.6	4225.2
80°	3345.4	3436.9	4104.9	6025.9	7738.1	7031.0	4525.3	3663.0	3553.0	3297.1
82.5°	2334.1	2629.1	3139.9	4502.7	6281.8	5100.9	3455.4	2713.3	2917.9	2809.9
85°	941.4	1164.5	1658.8	2183.0	3270.4	2402.9	1961.0	1428.6	1490.3	1346.4
87.5°	389.5	621.8	781.1	1135.7	1036.0	1185.0	929.1	671.1	606.4	608.4
90°	130.5	187.1	273.4	302.2	396.7	329.9	327.9	250.8	223.0	174.7
95°	36.0	63.7	71.9	97.6	81.2	86.3	84.3	68.9	43.2	41.1
105°	3.1	13.4	18.5	17.5	12.3	13.4	20.6	17.5	7.2	3.1
115°	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	2.1	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)