

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: HALO

Report Number: P395147

Luminaire Tested: **TGS3S401[F;D;M]S[R;C][B;W]**

Test Date: 03/18/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2002-668-1)  
Test Lab: INNOVATIONS CENTER(G3)  
Test Date: 03/18/2020  
Issue Date: 05/04/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: TGS3S401[F;D;M]S[R;C][B;W]  
Description: 4000K LARGE SINGLE HEAD LED FLOOD, SELECTABLE LUMEN  
Light Source: 4000K CCT, 70 CRI LEDs  
Ballast/Driver: (1) Electronic Driver

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3312.8 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 0.25' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

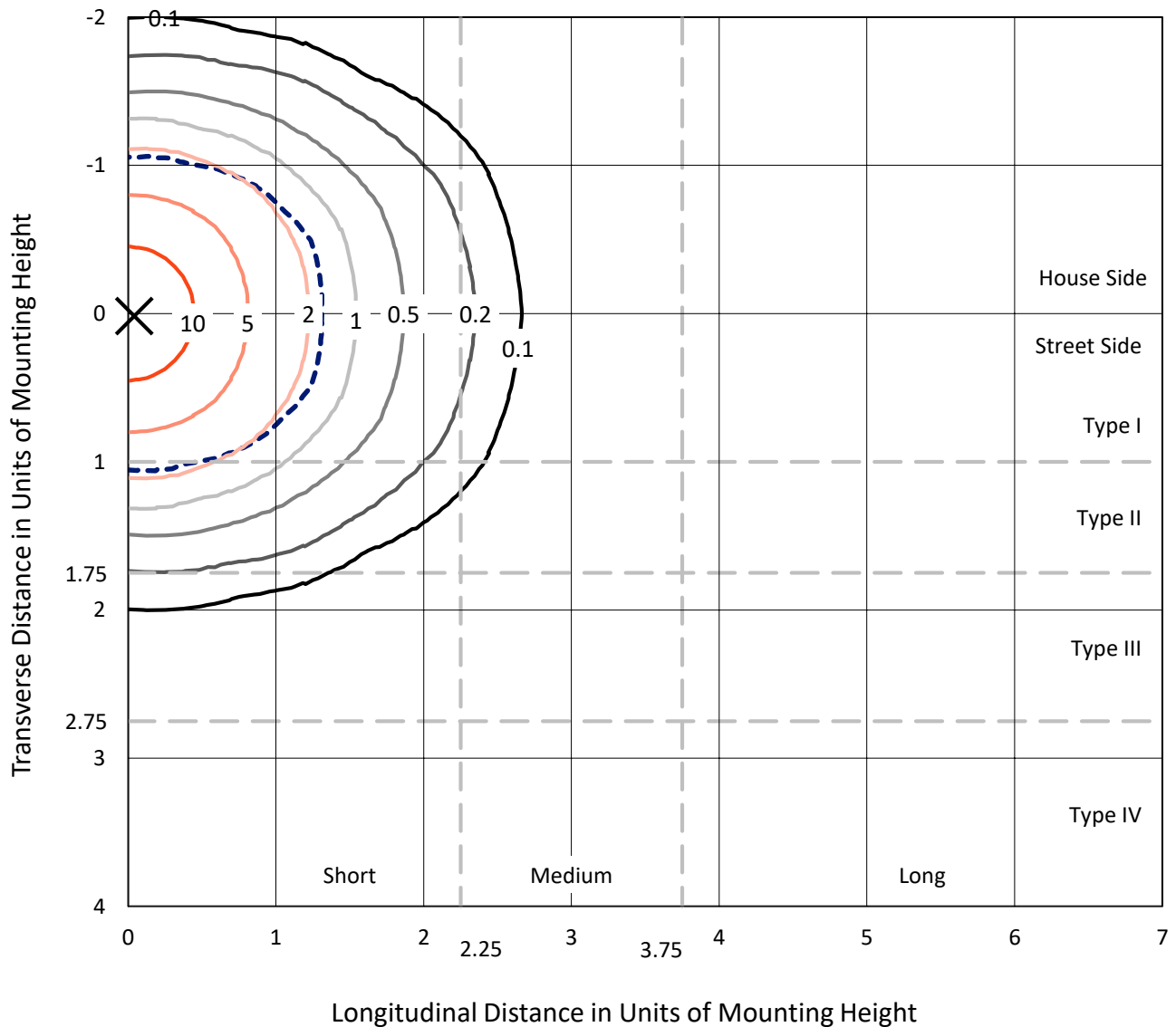
Input Watts (W): 26.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.223  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

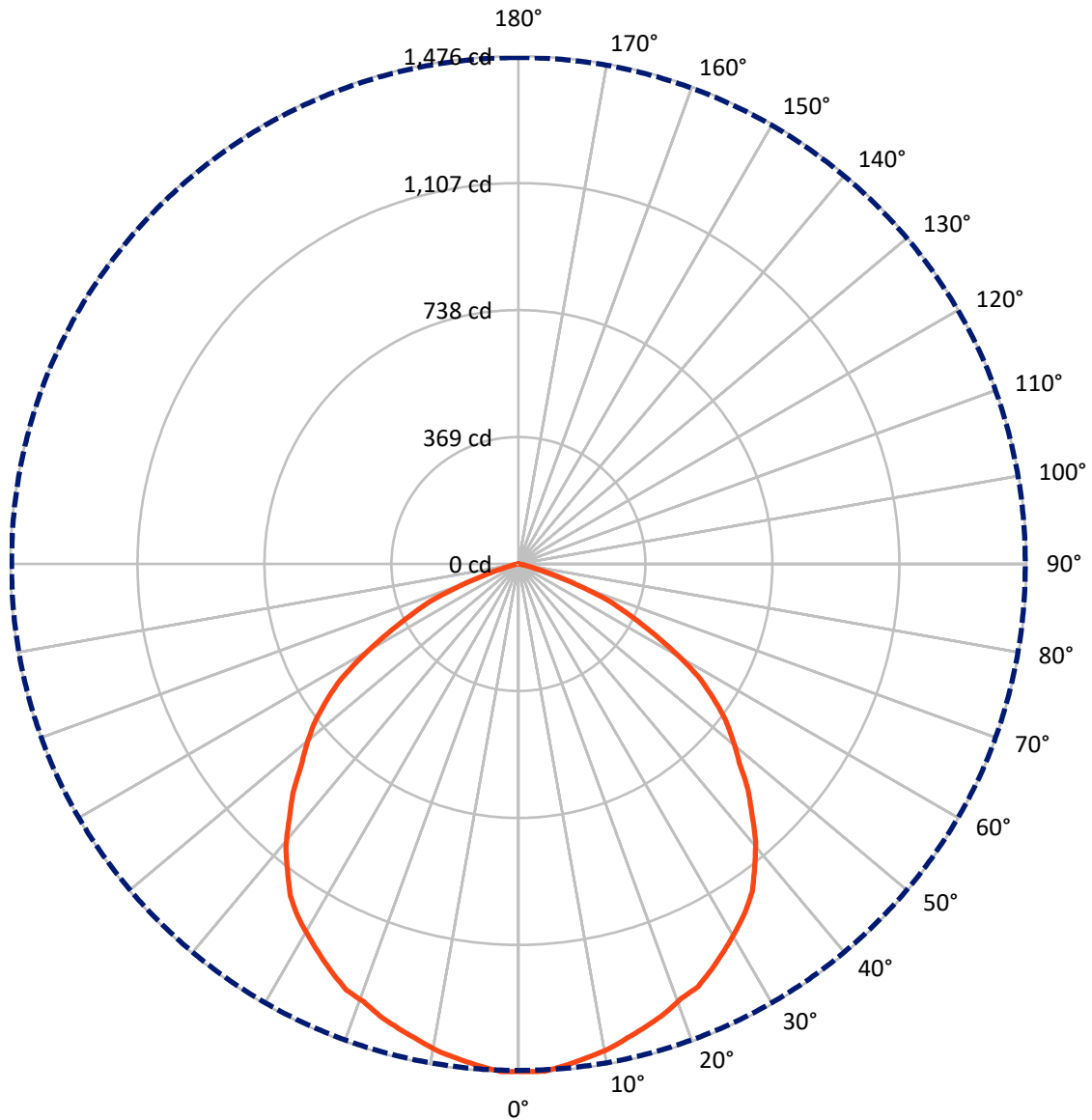
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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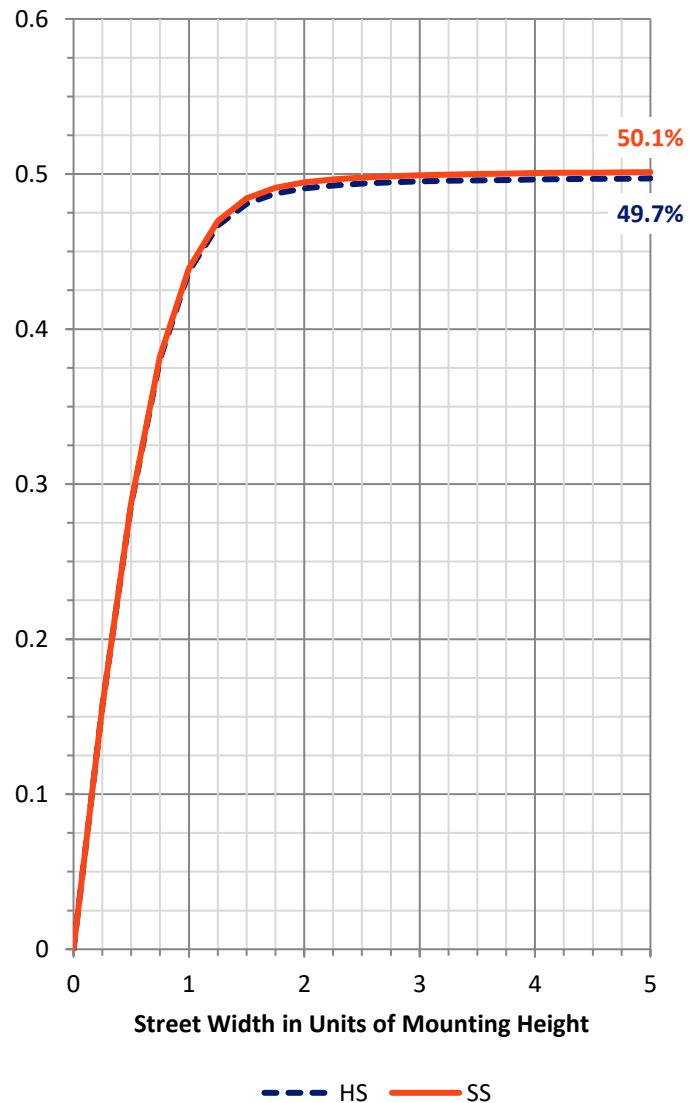
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1656.4	0.0	1656.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1656.4	0.0	1656.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3312.8	0.0	3312.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.8	4.2
10°-20°	394.8	11.9
20°-30°	603.8	18.2
30°-40°	727.6	22.0
40°-50°	686.8	20.7
50°-60°	481.5	14.5
60°-70°	224.1	6.8
70°-80°	50.5	1.5
80°-90°	4.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3312.8	100.0
0°-180°	3312.8	100.0



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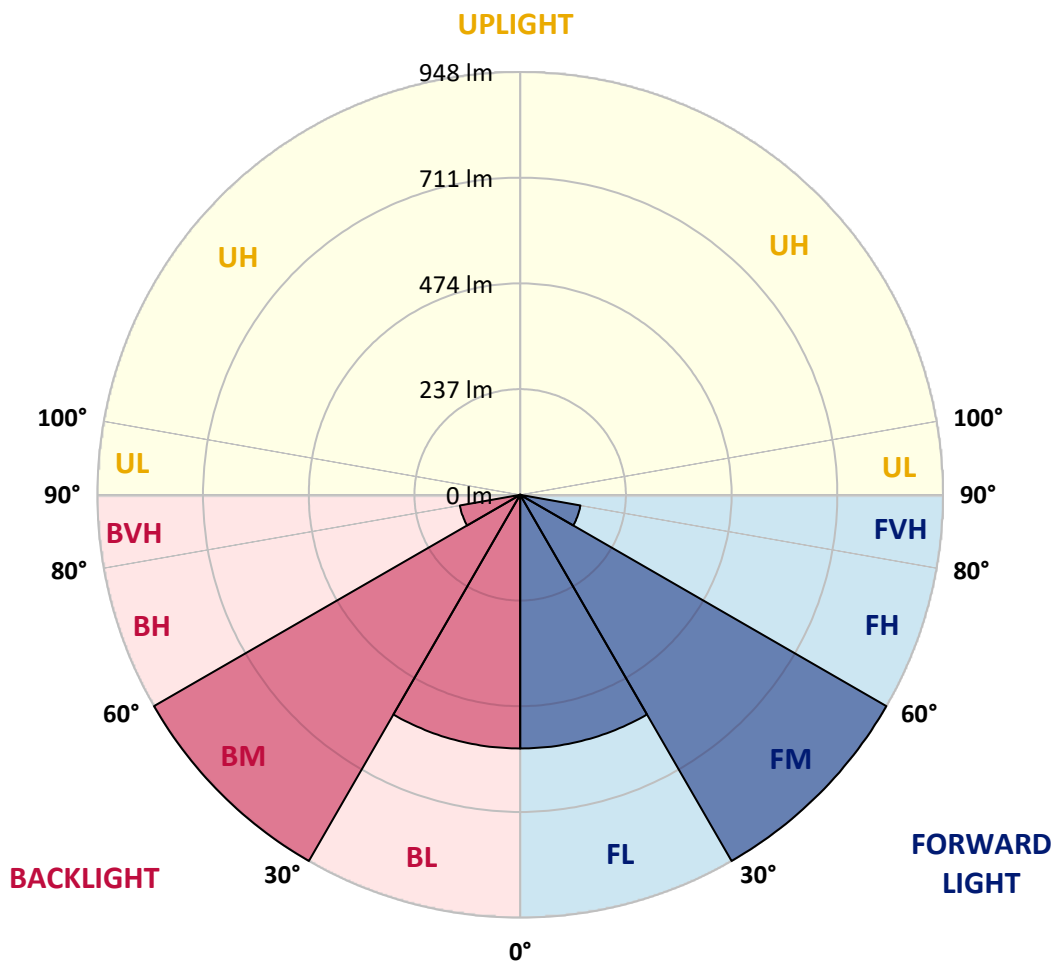
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.7	17.2			
FM	(30°-60°)	948.0	28.6			
FH	(60°-80°)	137.3	4.1			G0/660
FVH	(80°-90°)	2.5	0.1			G0/10
BL	(0°-30°)	568.7	17.2	B2/1000		
BM	(30°-60°)	948.0	28.6	B1/1000		
BH	(60°-80°)	137.3	4.1	B1/500		G0/660
BVH	(80°-90°)	2.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1475	1475	1475	1475	1475
2.5°	1472	1472	1473	1476	1473
5°	1463	1465	1463	1463	1462
7.5°	1451	1456	1448	1448	1445
10°	1435	1438	1435	1434	1435
12.5°	1421	1414	1416	1413	1409
15°	1412	1397	1397	1394	1397
17.5°	1387	1383	1374	1374	1375
20°	1367	1363	1353	1349	1357
22.5°	1345	1340	1331	1335	1337
25°	1324	1316	1305	1305	1307
27.5°	1292	1288	1277	1273	1277
30°	1263	1255	1255	1241	1234
32.5°	1220	1213	1217	1209	1209
35°	1167	1170	1178	1170	1161
37.5°	1081	1103	1135	1115	1103
40°	1026	1041	1092	1062	1035
42.5°	875	941	1022	995	965
45°	812	852	950	935	902
47.5°	663	731	871	864	846
50°	609	652	750	809	795
52.5°	438	499	682	754	740
55°	327	400	561	686	685
57.5°	241	310	451	616	601
60°	157	200	361	523	522
62.5°	120	144	276	431	455
65°	94	103	182	349	418
67.5°	72	78	122	280	309
70°	52	58	85	179	205
72.5°	42	43	52	98	112
75°	33	33	35	46	44
77.5°	24	24	24	24	21
80°	14	14	14	13	10
82.5°	8	8	8	7	5
85°	3	4	3	3	3
87.5°	1	1	1	1	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)