

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: P253157

Luminaire Tested: **SMD6S12927WHE**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-792-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S12927WHE
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM UNV Voltage
Light Source: (28) 2700K CCT, 91 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

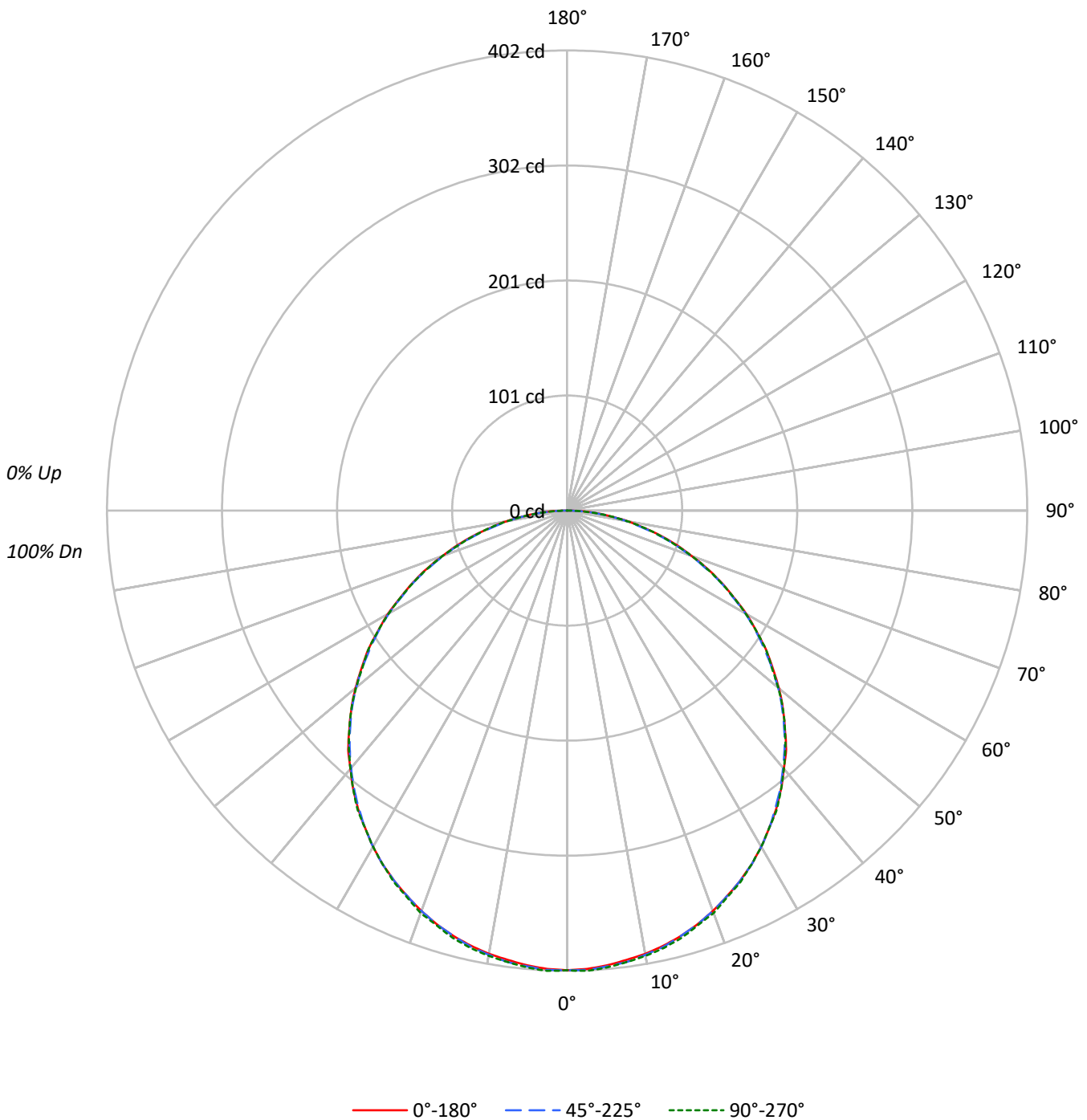
Lumens per Lamp: N/A
Luminaire Lumens: 1167.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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



TEST NUMBER: P253157
CATALOG NUMBER: SMD6S12927WHE

Luminous Intensity Polar Plot





TEST NUMBER: P253157

CATALOG NUMBER: SMD6S12927WHE

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15936	15936	15936
5°	15885	15921	15961
10°	15839	15875	15915
15°	15799	15799	15873
20°	15717	15717	15797
25°	15635	15635	15674
30°	15537	15537	15537
35°	15419	15370	15462
40°	15260	15208	15260
45°	15095	15045	15095
50°	14908	14853	14853
55°	14680	14549	14680
60°	14356	14285	14285
65°	13962	13877	13877
70°	13412	13296	13412
75°	12924	12633	12786
80°	12339	11905	12111
85°	11655	10790	10790



TEST NUMBER: P253157

CATALOG NUMBER: SMD6S12927WHE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	3.3
10°-20°	108.7	9.3
20°-30°	164.7	14.1
30°-40°	199.0	17.1
40°-50°	207.3	17.8
50°-60°	188.5	16.2
60°-70°	146.0	12.5
70°-80°	87.8	7.5
80°-90°	27.0	2.3
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°-30°	311.5	26.7
0°-40°	510.4	43.7
0°-60°	906.3	77.7
0°-90°	1167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	402	402	402	402	402	
5°	399	400	400	400	401	38
15°	385	386	385	386	386	109
25°	357	358	357	358	358	165
35°	318	318	317	318	319	199
45°	269	269	268	269	269	208
55°	212	211	210	211	212	189
65°	149	148	148	147	148	147
75°	84	83	82	82	83	89
85°	26	25	24	24	24	28
90°	0	0	0	0	0	



TEST NUMBER: P253157

CATALOG NUMBER: SMD6S12927WHE

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	401.6	401.6	401.6	401.6	401.6
2.5°	400.7	401.6	401.6	401.6	402.5
5°	398.8	399.7	399.7	399.7	400.7
7.5°	395.9	397.8	397.8	397.8	397.8
10°	393.1	394.0	394.0	394.0	395.0
12.5°	389.3	390.2	390.2	390.2	391.2
15°	384.6	385.5	384.6	385.5	386.4
17.5°	378.9	379.8	378.9	379.8	379.8
20°	372.2	373.2	372.2	373.2	374.1
22.5°	364.7	365.6	364.7	365.6	365.6
25°	357.1	358.0	357.1	358.0	358.0
27.5°	348.6	348.6	348.6	348.6	348.6
30°	339.1	339.1	339.1	340.0	339.1
32.5°	328.7	328.7	328.7	329.6	328.7
35°	318.3	318.3	317.3	318.3	319.2
37.5°	306.9	306.9	305.9	306.9	306.9
40°	294.6	294.6	293.6	294.6	294.6
42.5°	283.2	282.3	281.3	282.3	282.3
45°	269.0	269.0	268.1	269.0	269.0
47.5°	255.7	255.7	254.8	254.8	255.7
50°	241.5	240.6	240.6	240.6	240.6
52.5°	226.4	226.4	225.4	225.4	225.4
55°	212.2	211.2	210.3	211.2	212.2
57.5°	196.1	195.1	195.1	195.1	196.1
60°	180.9	180.0	180.0	180.0	180.0
62.5°	163.9	163.9	162.9	162.9	163.9
65°	148.7	147.8	147.8	146.8	147.8
67.5°	132.6	131.7	130.7	130.7	131.7
70°	115.6	115.6	114.6	114.6	115.6
72.5°	100.4	98.5	98.5	98.5	98.5
75°	84.3	83.4	82.4	82.4	83.4
77.5°	68.2	67.2	66.3	67.2	68.2
80°	54.0	53.0	52.1	52.1	53.0
82.5°	38.8	37.9	37.9	36.9	37.9
85°	25.6	24.6	23.7	23.7	23.7
87.5°	12.3	11.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)