

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: P232674

Luminaire Tested: **SMD6R12927WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1709-299-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6R12927WH
Description: HALO 6" ROUND SURFACE MOUNT 1200LM
Light Source: (49) 2700K CCT, 90 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

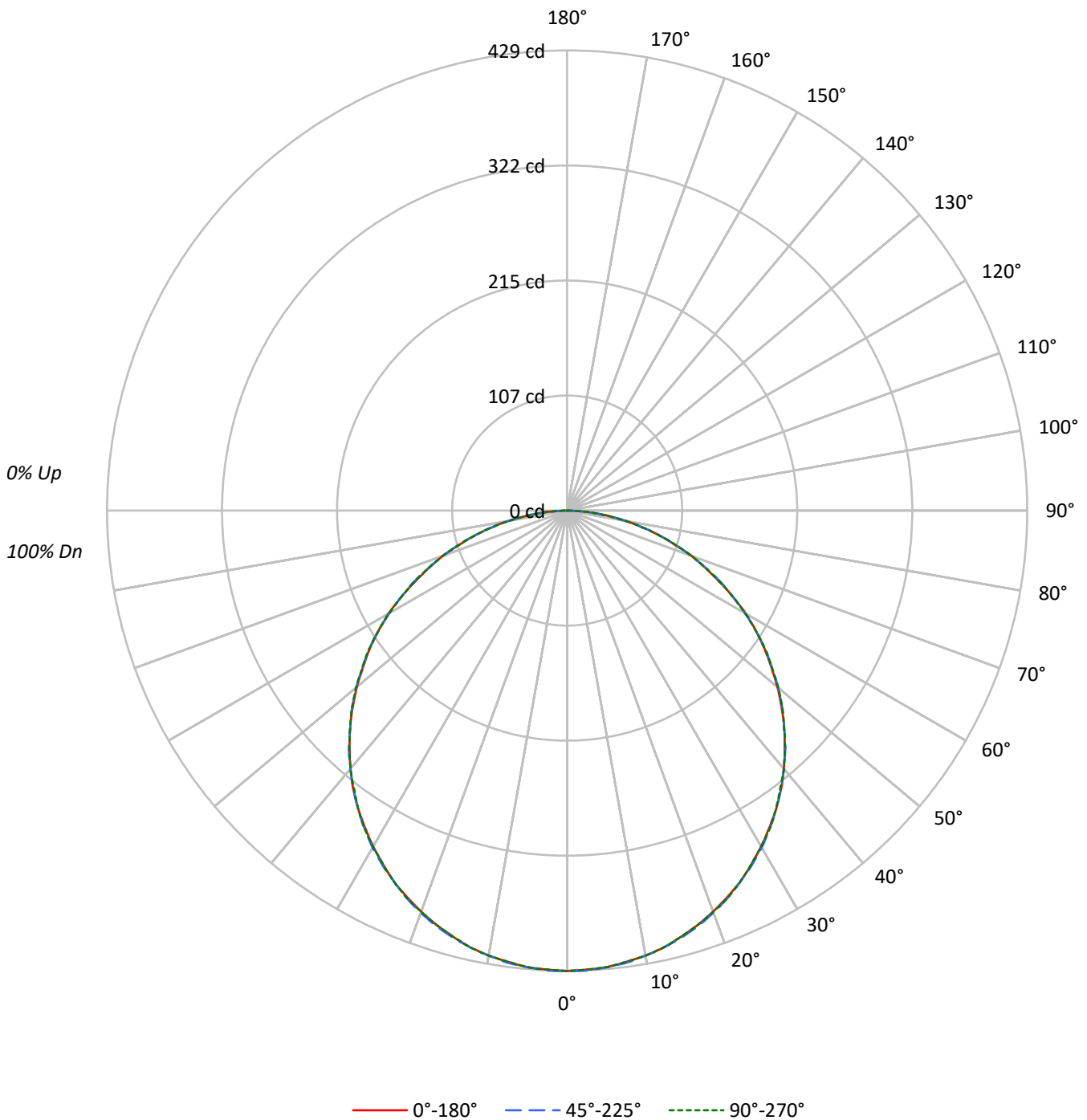
Lumens per Lamp: N/A
Luminaire Lumens: 1244.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Circular (Dia: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.7
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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Luminous Intensity Polar Plot





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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	104	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	85	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46	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	53	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°	21689	21689	21689
5°	21666	21666	21666
10°	21608	21608	21608
15°	21502	21555	21502
20°	21398	21452	21398
25°	21289	21289	21289
30°	21101	21165	21101
35°	20945	20945	20945
40°	20735	20735	20735
45°	20449	20449	20449
50°	20113	20200	20200
55°	19792	19880	19880
60°	19451	19350	19350
65°	18673	18912	18793
70°	18154	18154	18154
75°	17315	17315	17315
80°	16118	16118	16118
85°	14028	14028	14028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	3.3
10°-20°	116.2	9.3
20°-30°	176.0	14.1
30°-40°	212.5	17.1
40°-50°	221.0	17.8
50°-60°	201.0	16.2
60°-70°	155.6	12.5
70°-80°	93.6	7.5
80°-90°	27.5	2.2
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°	332.8	26.8
0°-40°	545.3	43.8
0°-60°	967.4	77.8
0°-90°	1244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	427	427	427	427	427	41
15°	411	412	412	411	411	116
25°	382	382	382	382	382	176
35°	340	340	340	340	340	212
45°	286	286	286	286	286	221
55°	225	225	226	225	226	201
65°	156	157	158	157	157	155
75°	89	89	89	89	89	93
85°	24	24	24	24	24	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429.3	429.3	429.3	429.3	429.3
2.5°	428.3	429.3	429.3	428.3	428.3
5°	427.2	427.2	427.2	427.2	427.2
7.5°	424.2	425.2	425.2	424.2	424.2
10°	421.2	421.2	421.2	421.2	421.2
12.5°	417.2	417.2	417.2	417.2	417.2
15°	411.1	412.1	412.1	411.1	411.1
17.5°	405.1	406.1	406.1	405.1	405.1
20°	398.0	399.0	399.0	398.0	398.0
22.5°	390.0	391.0	391.0	390.0	391.0
25°	381.9	381.9	381.9	381.9	381.9
27.5°	371.8	372.8	372.8	372.8	371.8
30°	361.7	362.8	362.8	361.7	361.7
32.5°	350.7	351.7	351.7	351.7	351.7
35°	339.6	339.6	339.6	339.6	339.6
37.5°	327.5	327.5	327.5	327.5	326.5
40°	314.4	314.4	314.4	314.4	314.4
42.5°	300.3	301.3	301.3	301.3	300.3
45°	286.2	286.2	286.2	286.2	286.2
47.5°	271.1	272.1	272.1	272.1	272.1
50°	255.9	257.0	257.0	257.0	257.0
52.5°	239.8	240.8	240.8	240.8	240.8
55°	224.7	224.7	225.7	224.7	225.7
57.5°	208.6	208.6	208.6	208.6	208.6
60°	192.5	191.5	191.5	191.5	191.5
62.5°	174.3	174.3	174.3	174.3	174.3
65°	156.2	157.2	158.2	157.2	157.2
67.5°	139.1	140.1	140.1	140.1	140.1
70°	122.9	121.9	122.9	122.9	122.9
72.5°	104.8	105.8	105.8	104.8	105.8
75°	88.7	88.7	88.7	88.7	88.7
77.5°	71.5	72.6	71.5	71.5	71.5
80°	55.4	55.4	55.4	55.4	55.4
82.5°	39.3	39.3	39.3	39.3	39.3
85°	24.2	24.2	24.2	24.2	24.2
87.5°	10.1	10.1	10.1	9.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)