

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: P232677

Luminaire Tested: **SMD6R12940WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232677  
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: SMD6R12940WH  
Description: HALO 6" ROUND SURFACE MOUNT 1200LM  
Light Source: (49) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

**Summary**

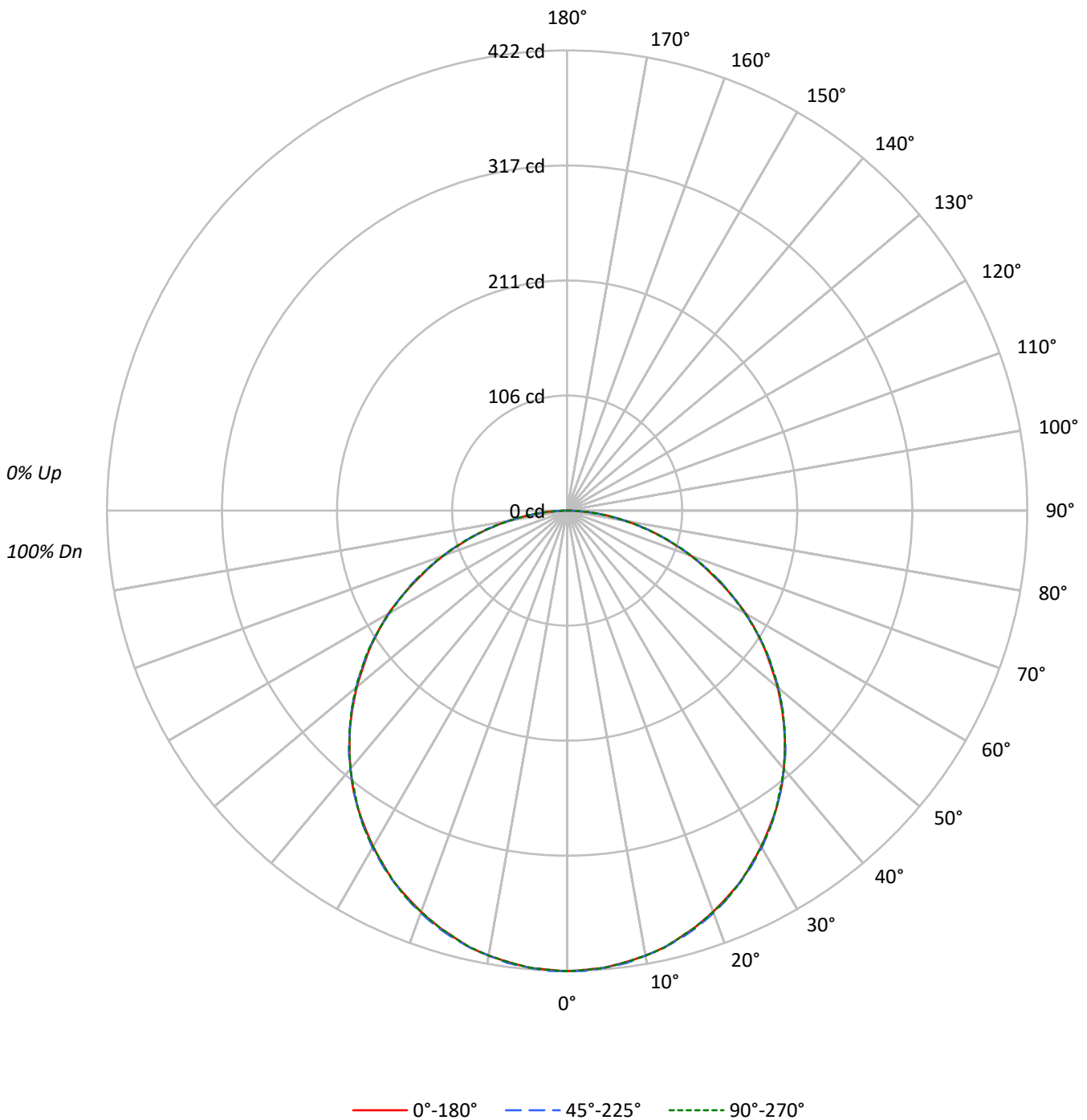
Lumens per Lamp: N/A  
Luminaire Lumens: 1224.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Circular (Dia: 0.52' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.3  
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°	21341	21341	21341
5°	21321	21321	21321
10°	21259	21259	21259
15°	21157	21210	21157
20°	21054	21108	21054
25°	20949	20949	20949
30°	20763	20821	20763
35°	20606	20606	20606
40°	20399	20399	20399
45°	20120	20120	20120
50°	19791	19870	19870
55°	19475	19563	19563
60°	19138	19037	19037
65°	18374	18613	18494
70°	17874	17874	17874
75°	17022	17022	17022
80°	15857	15857	15857
85°	13796	13796	13796



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	3.3
10°-20°	114.3	9.3
20°-30°	173.2	14.2
30°-40°	209.1	17.1
40°-50°	217.5	17.8
50°-60°	197.8	16.2
60°-70°	153.1	12.5
70°-80°	92.1	7.5
80°-90°	27.0	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°	327.5	26.8
0°-40°	536.5	43.8
0°-60°	951.8	77.8
0°-90°	1224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	420	420	420	420	420	40
15°	404	406	406	404	404	114
25°	376	376	376	376	376	173
35°	334	334	334	334	334	209
45°	282	282	282	282	282	217
55°	221	221	222	221	222	197
65°	154	155	156	155	155	153
75°	87	87	87	87	87	92
85°	24	24	24	24	24	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	422.4	422.4	422.4	422.4	422.4
2.5°	421.4	422.4	422.4	421.4	421.4
5°	420.4	420.4	420.4	420.4	420.4
7.5°	417.4	418.4	418.4	417.4	417.4
10°	414.4	414.4	414.4	414.4	414.4
12.5°	410.5	410.5	410.5	410.5	410.5
15°	404.5	405.5	405.5	404.5	404.5
17.5°	398.6	399.6	399.6	398.6	398.6
20°	391.6	392.6	392.6	391.6	391.6
22.5°	383.7	384.7	384.7	383.7	384.7
25°	375.8	375.8	375.8	375.8	375.8
27.5°	365.8	366.8	366.8	366.8	365.8
30°	355.9	356.9	356.9	355.9	355.9
32.5°	345.0	346.0	346.0	346.0	346.0
35°	334.1	334.1	334.1	334.1	334.1
37.5°	322.2	322.2	322.2	322.2	321.2
40°	309.3	309.3	309.3	309.3	309.3
42.5°	295.5	296.4	296.4	296.4	295.5
45°	281.6	281.6	281.6	281.6	281.6
47.5°	266.7	267.7	267.7	267.7	267.7
50°	251.8	252.8	252.8	252.8	252.8
52.5°	236.0	237.0	237.0	237.0	237.0
55°	221.1	221.1	222.1	221.1	222.1
57.5°	205.2	205.2	205.2	205.2	205.2
60°	189.4	188.4	188.4	188.4	188.4
62.5°	171.5	171.5	171.5	171.5	171.5
65°	153.7	154.7	155.7	154.7	154.7
67.5°	136.8	137.8	137.8	137.8	137.8
70°	121.0	120.0	121.0	121.0	121.0
72.5°	103.1	104.1	104.1	103.1	104.1
75°	87.2	87.2	87.2	87.2	87.2
77.5°	70.4	71.4	70.4	70.4	70.4
80°	54.5	54.5	54.5	54.5	54.5
82.5°	38.7	38.7	38.7	38.7	38.7
85°	23.8	23.8	23.8	23.8	23.8
87.5°	9.9	9.9	9.9	8.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)