

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: P232673

Luminaire Tested: **SMD6S12940WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1709-299-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S12940WH
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM
Light Source: (21) 4000K CCT, 90 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

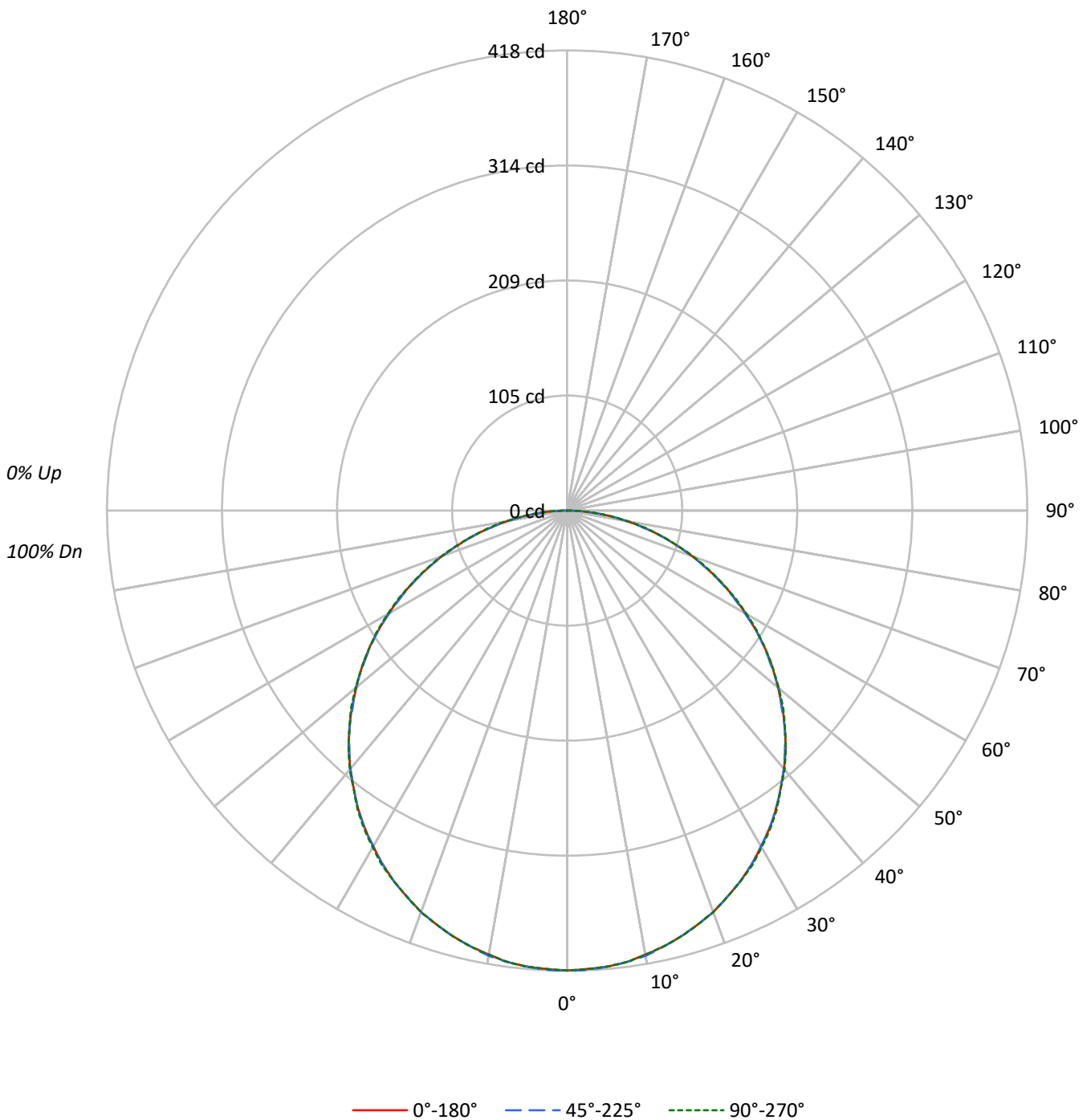
Lumens per Lamp: N/A
Luminaire Lumens: 1216.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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	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					100			
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16578	16578	16578
5°	16562	16562	16562
10°	16504	16548	16504
15°	16448	16448	16448
20°	16388	16388	16388
25°	16278	16278	16278
30°	16142	16142	16188
35°	16024	16024	16073
40°	15861	15861	15913
45°	15690	15690	15690
50°	15427	15488	15488
55°	15233	15164	15233
60°	14872	14793	14951
65°	14516	14422	14516
70°	14015	14015	14142
75°	13507	13338	13507
80°	12637	12637	12865
85°	11655	11655	12110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	3.2
10°-20°	113.0	9.3
20°-30°	171.3	14.1
30°-40°	207.0	17.0
40°-50°	215.5	17.7
50°-60°	196.1	16.1
60°-70°	152.4	12.5
70°-80°	92.4	7.6
80°-90°	28.6	2.4
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°	323.8	26.6
0°-40°	530.8	43.7
0°-60°	942.5	77.5
0°-90°	1216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	416	416	416	416	416	40
15°	400	400	400	400	400	113
25°	372	372	372	372	372	171
35°	331	331	331	331	332	207
45°	280	279	280	280	280	216
55°	220	219	219	219	220	196
65°	155	154	154	154	155	153
75°	88	87	87	87	88	92
85°	26	25	26	26	27	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	417.8	417.8	417.8	417.8	417.8
2.5°	416.8	416.8	417.8	416.8	416.8
5°	415.8	415.8	415.8	415.8	415.8
7.5°	413.7	413.7	413.7	413.7	413.7
10°	409.6	409.6	410.7	409.6	409.6
12.5°	405.5	405.5	405.5	405.5	405.5
15°	400.4	400.4	400.4	400.4	400.4
17.5°	394.3	394.3	394.3	394.3	394.3
20°	388.1	387.1	388.1	388.1	388.1
22.5°	379.9	379.9	379.9	379.9	379.9
25°	371.8	371.8	371.8	371.8	371.8
27.5°	362.5	362.5	362.5	362.5	363.6
30°	352.3	352.3	352.3	353.3	353.3
32.5°	342.1	342.1	342.1	342.1	343.1
35°	330.8	330.8	330.8	330.8	331.8
37.5°	318.5	318.5	318.5	319.5	318.5
40°	306.2	306.2	306.2	306.2	307.2
42.5°	293.9	292.9	292.9	293.9	293.9
45°	279.6	278.6	279.6	279.6	279.6
47.5°	265.2	265.2	264.2	265.2	266.3
50°	249.9	249.9	250.9	250.9	250.9
52.5°	235.5	234.5	234.5	235.5	235.5
55°	220.2	219.2	219.2	219.2	220.2
57.5°	203.8	202.8	203.8	203.8	204.8
60°	187.4	186.4	186.4	187.4	188.4
62.5°	171.0	170.0	170.0	171.0	172.1
65°	154.6	153.6	153.6	153.6	154.6
67.5°	137.2	137.2	137.2	138.3	138.3
70°	120.8	119.8	120.8	120.8	121.9
72.5°	103.4	103.4	103.4	104.5	104.5
75°	88.1	87.0	87.0	87.0	88.1
77.5°	70.7	70.7	70.7	71.7	72.7
80°	55.3	55.3	55.3	56.3	56.3
82.5°	39.9	39.9	39.9	41.0	41.0
85°	25.6	24.6	25.6	25.6	26.6
87.5°	11.3	11.3	11.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)