

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: P284407

Luminaire Tested: **RSQ6089FS1EMWWB-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P284407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1811-050-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RSQ6089FS1EMWWB-3000K  
Description: HALO RSQ 6 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 3000K  
Light Source: (30) 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

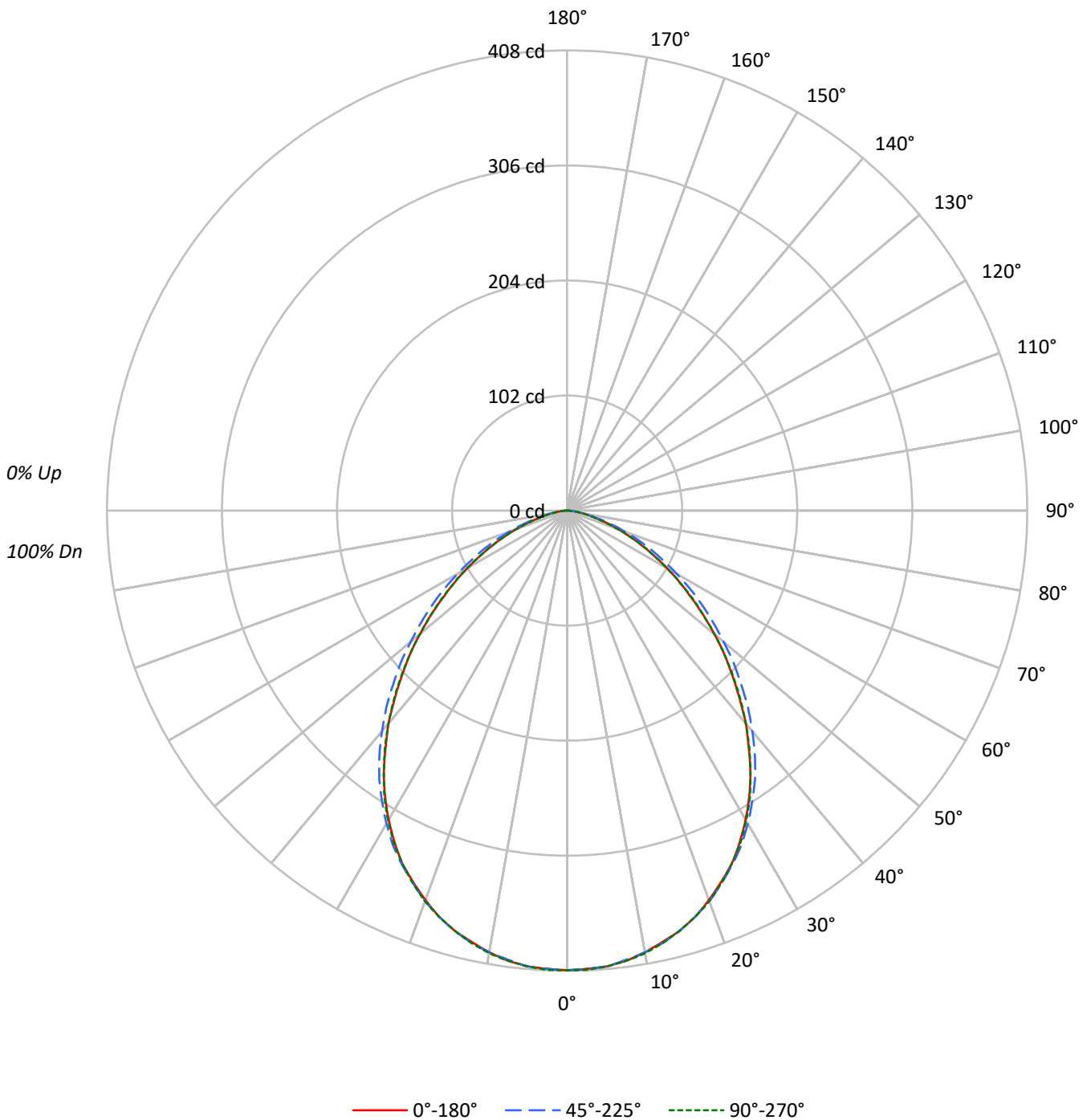
Lumens per Lamp: N/A  
Luminaire Lumens: 890.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.45  
Input Voltage (V): 120  
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	110	106	102	99	108	104	101	98	100	97	95	96	94	92	92	91	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77					75				
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67					65				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41					39				
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37					35				
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	39486	39486	39486
5°	39443	39443	39443
10°	39112	39112	39210
15°	38673	38673	38673
20°	37897	38000	38000
25°	36931	37037	36931
30°	35404	35852	35516
35°	33516	34355	33516
40°	31160	32298	31160
45°	28401	29908	28538
50°	25666	27324	25666
55°	22666	24693	22835
60°	19801	21739	19801
65°	16756	18820	16756
70°	13624	15324	13341
75°	10106	11603	10106
80°	7252	7810	7252
85°	5558	5558	5558



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.4	4.3
10°-20°	108.6	12.2
20°-30°	159.0	17.9
30°-40°	178.7	20.1
40°-50°	164.2	18.5
50°-60°	125.7	14.1
60°-70°	77.2	8.7
70°-80°	31.7	3.6
80°-90°	6.4	0.7
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°	306.0	34.4
0°-40°	484.7	54.5
0°-60°	774.6	87.0
0°-90°	890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	890.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	406	406	406	405	406	38
15°	386	386	386	386	386	109
25°	346	346	346	346	346	158
35°	283	286	290	286	283	177
45°	207	212	218	213	208	160
55°	134	140	146	140	135	121
65°	73	78	82	78	73	73
75°	27	29	31	29	27	30
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	407.6	407.6	407.6	407.6	407.6
2.5°	406.6	407.6	406.6	407.6	407.6
5°	405.6	405.6	405.6	404.6	405.6
7.5°	402.6	402.6	401.6	401.6	402.6
10°	397.6	397.6	397.6	397.6	398.6
12.5°	391.6	392.6	392.6	391.6	392.6
15°	385.6	385.6	385.6	385.6	385.6
17.5°	377.6	377.6	377.6	377.6	377.6
20°	367.6	367.6	368.6	368.6	368.6
22.5°	356.6	356.6	357.6	357.6	357.6
25°	345.5	345.5	346.5	346.5	345.5
27.5°	331.5	332.5	334.5	332.5	332.5
30°	316.5	318.5	320.5	318.5	317.5
32.5°	300.5	302.5	305.5	303.5	301.5
35°	283.4	286.5	290.5	286.5	283.4
37.5°	264.4	268.4	273.4	268.4	265.4
40°	246.4	250.4	255.4	250.4	246.4
42.5°	226.4	231.4	237.4	231.4	227.4
45°	207.3	212.3	218.3	213.3	208.3
47.5°	189.3	193.3	200.3	194.3	189.3
50°	170.3	175.3	181.3	176.3	170.3
52.5°	152.2	157.2	163.3	158.3	152.2
55°	134.2	140.2	146.2	140.2	135.2
57.5°	118.2	123.2	129.2	123.2	118.2
60°	102.2	107.2	112.2	107.2	102.2
62.5°	87.1	92.1	96.2	92.1	87.1
65°	73.1	78.1	82.1	78.1	73.1
67.5°	60.1	64.1	68.1	63.1	60.1
70°	48.1	51.1	54.1	51.1	47.1
72.5°	37.1	39.1	42.1	39.1	36.1
75°	27.0	29.0	31.0	29.0	27.0
77.5°	19.0	20.0	21.0	20.0	19.0
80°	13.0	14.0	14.0	14.0	13.0
82.5°	9.0	9.0	9.0	9.0	9.0
85°	5.0	5.0	5.0	5.0	5.0
87.5°	2.0	3.0	2.0	3.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)