

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: P284409

Luminaire Tested: **RSQ6089FS1EMWWB-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284409
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-4000K
Description: HALO RSQ 6 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 4000K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

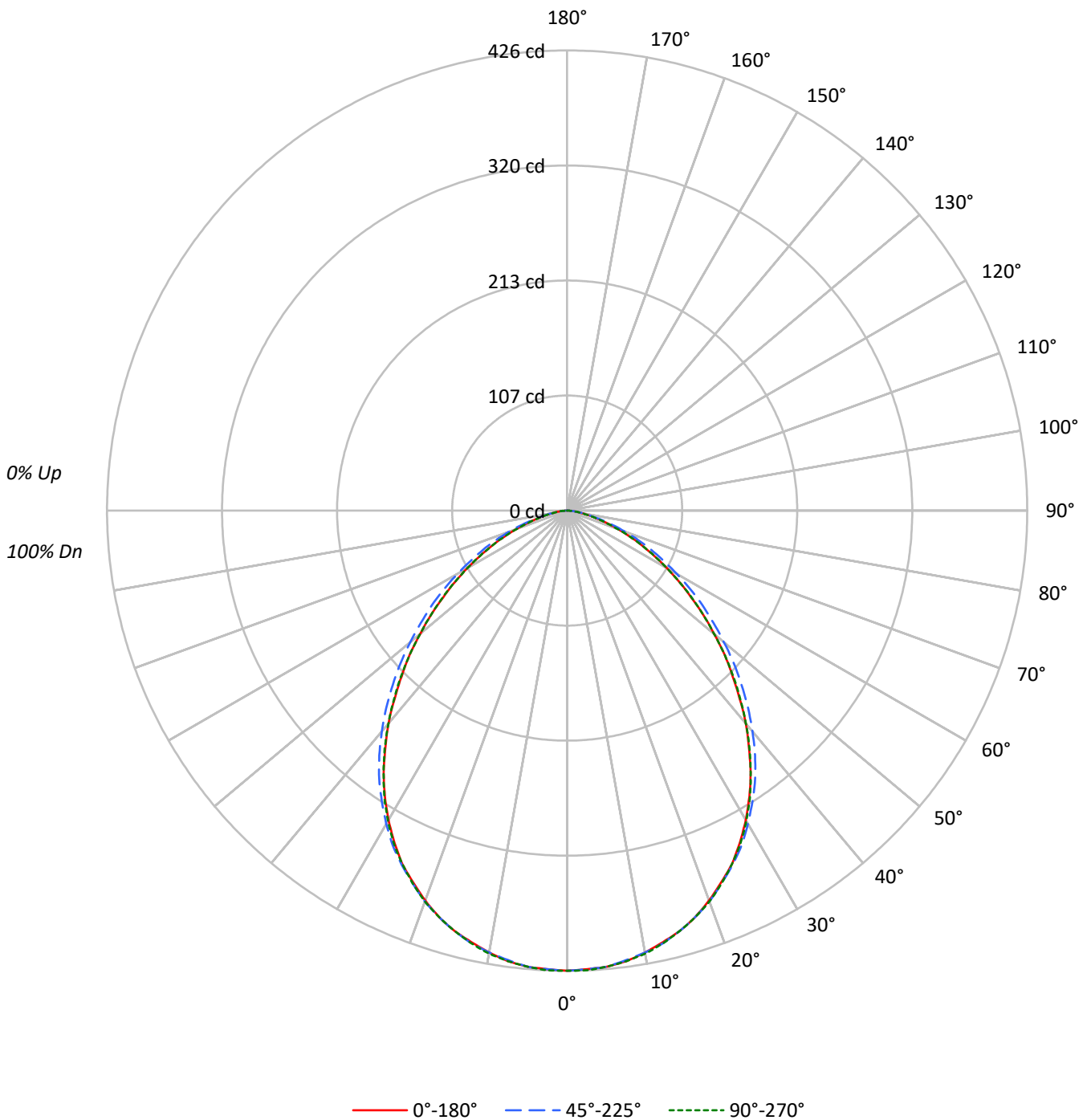
Lumens per Lamp: N/A
Luminaire Lumens: 930.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.44
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°	41269	41269	41269
5°	41222	41222	41222
10°	40873	40873	40971
15°	40408	40408	40408
20°	39598	39711	39711
25°	38598	38705	38598
30°	36993	37463	37116
35°	35030	35893	35030
40°	32564	33753	32564
45°	29675	31264	29825
50°	26812	28545	26812
55°	23679	25807	23865
60°	20693	22708	20693
65°	17513	19668	17513
70°	14219	16003	13936
75°	10593	12127	10593
80°	7587	8201	7587
85°	5780	5780	5780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	4.3
10°-20°	113.5	12.2
20°-30°	166.1	17.9
30°-40°	186.7	20.1
40°-50°	171.6	18.5
50°-60°	131.3	14.1
60°-70°	80.7	8.7
70°-80°	33.2	3.6
80°-90°	6.6	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°	319.8	34.4
0°-40°	506.5	54.5
0°-60°	809.4	87.0
0°-90°	930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	424	424	424	423	424	40
15°	403	403	403	403	403	113
25°	361	361	362	362	361	166
35°	296	299	304	299	296	185
45°	217	222	228	223	218	167
55°	140	146	153	146	141	126
65°	76	82	86	82	76	76
75°	28	30	32	30	28	31
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°	426.0	426.0	426.0	426.0	426.0
2.5°	424.9	426.0	424.9	426.0	426.0
5°	423.9	423.9	423.9	422.8	423.9
7.5°	420.7	420.7	419.7	419.7	420.7
10°	415.5	415.5	415.5	415.5	416.5
12.5°	409.2	410.3	410.3	409.2	410.3
15°	402.9	402.9	402.9	402.9	402.9
17.5°	394.6	394.6	394.6	394.6	394.6
20°	384.1	384.1	385.2	385.2	385.2
22.5°	372.6	372.6	373.6	373.6	373.6
25°	361.1	361.1	362.1	362.1	361.1
27.5°	346.4	347.5	349.6	347.5	347.5
30°	330.7	332.8	334.9	332.8	331.8
32.5°	314.0	316.1	319.2	317.1	315.0
35°	296.2	299.3	303.5	299.3	296.2
37.5°	276.3	280.5	285.7	280.5	277.4
40°	257.5	261.7	266.9	261.7	257.5
42.5°	236.5	241.8	248.0	241.8	237.6
45°	216.6	221.9	228.2	222.9	217.7
47.5°	197.8	202.0	209.3	203.0	197.8
50°	177.9	183.2	189.4	184.2	177.9
52.5°	159.1	164.3	170.6	165.4	159.1
55°	140.2	146.5	152.8	146.5	141.3
57.5°	123.5	128.7	135.0	128.7	123.5
60°	106.8	112.0	117.2	112.0	106.8
62.5°	91.1	96.3	100.5	96.3	91.1
65°	76.4	81.6	85.8	81.6	76.4
67.5°	62.8	67.0	71.2	65.9	62.8
70°	50.2	53.4	56.5	53.4	49.2
72.5°	38.7	40.8	44.0	40.8	37.7
75°	28.3	30.4	32.4	30.4	28.3
77.5°	19.9	20.9	22.0	20.9	19.9
80°	13.6	14.7	14.7	14.7	13.6
82.5°	9.4	9.4	9.4	9.4	9.4
85°	5.2	5.2	5.2	5.2	5.2
87.5°	2.1	3.1	2.1	3.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)