

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: P284406

Luminaire Tested: **RSQ6089FS1EMWWB-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284406
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-2700K
Description: HALO RSQ 6 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 2700K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

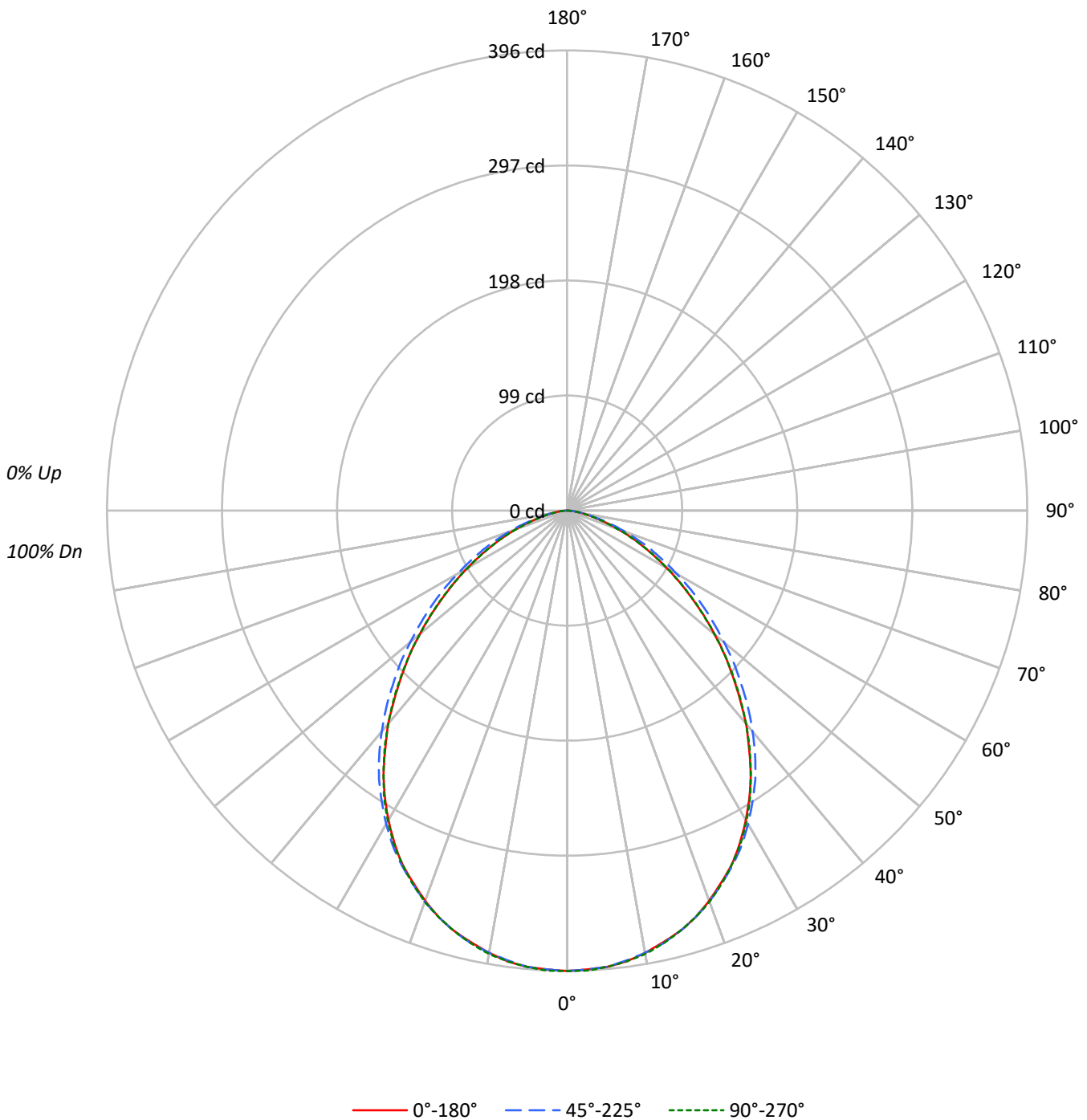
Lumens per Lamp: N/A
Luminaire Lumens: 865.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75					75			
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65					65			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35					35			
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32					32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38382	38382	38382
5°	38334	38334	38334
10°	38020	38020	38108
15°	37590	37590	37590
20°	36835	36928	36928
25°	35894	36001	35894
30°	34409	34845	34521
35°	32581	33386	32581
40°	30288	31388	30288
45°	27606	29072	27743
50°	24943	26555	24943
55°	22024	24000	22193
60°	19239	21119	19239
65°	16298	18292	16298
70°	13228	14899	12973
75°	9844	11304	9844
80°	7085	7587	7085
85°	5446	5446	5446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	4.3
10°-20°	105.6	12.2
20°-30°	154.5	17.9
30°-40°	173.7	20.1
40°-50°	159.6	18.5
50°-60°	122.2	14.1
60°-70°	75.1	8.7
70°-80°	30.9	3.6
80°-90°	6.2	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°	297.4	34.4
0°-40°	471.1	54.5
0°-60°	752.9	87.0
0°-90°	865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	394	394	394	393	394	37
15°	375	375	375	375	375	105
25°	336	336	337	337	336	154
35°	276	278	282	278	276	172
45°	202	206	212	207	202	156
55°	130	136	142	136	131	117
65°	71	76	80	76	71	71
75°	26	28	30	28	26	29
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°	396.2	396.2	396.2	396.2	396.2
2.5°	395.2	396.2	395.2	396.2	396.2
5°	394.2	394.2	394.2	393.3	394.2
7.5°	391.3	391.3	390.4	390.4	391.3
10°	386.5	386.5	386.5	386.5	387.4
12.5°	380.6	381.6	381.6	380.6	381.6
15°	374.8	374.8	374.8	374.8	374.8
17.5°	367.0	367.0	367.0	367.0	367.0
20°	357.3	357.3	358.2	358.2	358.2
22.5°	346.5	346.5	347.5	347.5	347.5
25°	335.8	335.8	336.8	336.8	335.8
27.5°	322.2	323.2	325.1	323.2	323.2
30°	307.6	309.6	311.5	309.6	308.6
32.5°	292.0	294.0	296.9	295.0	293.0
35°	275.5	278.4	282.3	278.4	275.5
37.5°	257.0	260.9	265.8	260.9	258.0
40°	239.5	243.4	248.2	243.4	239.5
42.5°	220.0	224.9	230.7	224.9	221.0
45°	201.5	206.4	212.2	207.3	202.5
47.5°	184.0	187.9	194.7	188.9	184.0
50°	165.5	170.4	176.2	171.3	165.5
52.5°	148.0	152.8	158.7	153.8	148.0
55°	130.4	136.3	142.1	136.3	131.4
57.5°	114.9	119.7	125.6	119.7	114.9
60°	99.3	104.2	109.0	104.2	99.3
62.5°	84.7	89.6	93.5	89.6	84.7
65°	71.1	75.9	79.8	75.9	71.1
67.5°	58.4	62.3	66.2	61.3	58.4
70°	46.7	49.6	52.6	49.6	45.8
72.5°	36.0	38.0	40.9	38.0	35.0
75°	26.3	28.2	30.2	28.2	26.3
77.5°	18.5	19.5	20.4	19.5	18.5
80°	12.7	13.6	13.6	13.6	12.7
82.5°	8.8	8.8	8.8	8.8	8.8
85°	4.9	4.9	4.9	4.9	4.9
87.5°	1.9	2.9	1.9	2.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)