

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P256521

Luminaire Tested: **RSQ4089301EMWWB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1806-815-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RSQ4089301EMWWB
Description: HALO RSQ 4 INCH LED FIXTURE WITH MATT WHITE BAFFLE, 800LM, 90CRI, 3000K
Light Source: (15) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 814.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.24
Luminous Opening: Rectangular (W 0.21' x L: 0.21' x H: 0')
CIE Type: Direct

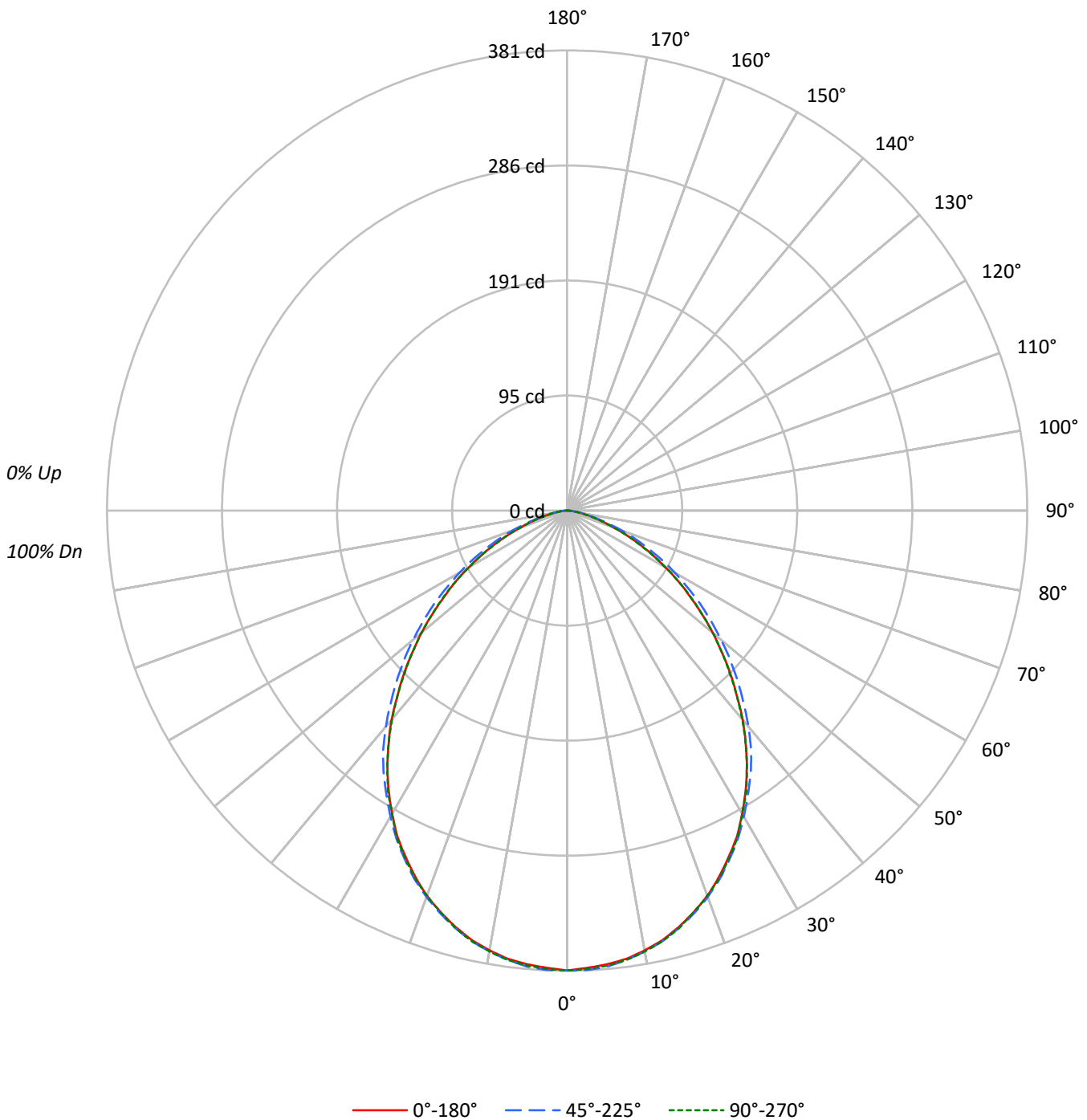
Input Watts (W): 9.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77					75				
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67					65				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	59					57				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	94439	94439	94439
5°	93879	94352	94128
10°	93126	93352	93352
15°	91634	91865	91865
20°	89574	89838	89574
25°	86579	87099	86853
30°	82989	83762	82989
35°	78534	80199	78534
40°	73263	75626	72972
45°	67094	70005	66778
50°	60690	64239	60690
55°	53701	58068	54090
60°	46525	51088	46525
65°	38848	43190	38319
70°	30019	34660	30019
75°	22039	24722	22039
80°	15710	15710	15710
85°	10528	10528	13089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	4.4
10°-20°	100.6	12.4
20°-30°	146.0	17.9
30°-40°	163.4	20.1
40°-50°	150.5	18.5
50°-60°	115.9	14.2
60°-70°	69.8	8.6
70°-80°	26.9	3.3
80°-90°	5.1	0.6
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°	282.4	34.7
0°-40°	445.8	54.8
0°-60°	712.2	87.5
0°-90°	814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	381	381	381	381	381	
5°	377	378	379	377	378	36
15°	357	358	358	357	358	100
25°	316	317	318	316	317	146
35°	259	262	265	260	259	162
45°	191	195	200	195	190	147
55°	124	131	134	129	125	112
65°	66	71	74	70	65	66
75°	23	24	26	24	23	25
85°	4	4	4	5	5	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	380.8	380.8	380.8	380.8	380.8
2.5°	379.0	379.9	380.8	379.0	379.9
5°	377.1	378.1	379.0	377.1	378.1
7.5°	374.4	375.3	375.3	373.5	375.3
10°	369.8	370.7	370.7	369.8	370.7
12.5°	364.3	364.3	365.2	363.4	365.2
15°	356.9	357.8	357.8	356.9	357.8
17.5°	348.6	349.6	349.6	348.6	348.6
20°	339.4	340.4	340.4	338.5	339.4
22.5°	328.4	329.3	330.2	328.4	329.3
25°	316.4	317.4	318.3	316.4	317.4
27.5°	304.5	305.4	306.3	304.5	305.4
30°	289.8	292.5	292.5	290.7	289.8
32.5°	275.0	277.8	278.7	276.9	276.0
35°	259.4	262.2	264.9	260.3	259.4
37.5°	242.8	245.6	250.2	244.7	242.8
40°	226.3	229.0	233.6	228.1	225.4
42.5°	207.9	212.5	216.2	211.6	207.9
45°	191.3	195.0	199.6	195.0	190.4
47.5°	173.9	178.5	183.1	177.5	173.9
50°	157.3	161.9	166.5	161.9	157.3
52.5°	140.7	146.3	149.9	145.3	140.7
55°	124.2	130.6	134.3	128.8	125.1
57.5°	109.5	114.1	117.7	114.1	109.5
60°	93.8	98.4	103.0	98.4	93.8
62.5°	80.0	84.6	88.3	84.6	80.0
65°	66.2	70.8	73.6	69.9	65.3
67.5°	53.4	57.0	60.7	57.0	53.4
70°	41.4	44.2	47.8	44.2	41.4
72.5°	31.3	33.1	35.9	33.1	31.3
75°	23.0	23.9	25.8	23.9	23.0
77.5°	15.6	16.6	17.5	16.6	15.6
80°	11.0	12.0	11.0	12.0	11.0
82.5°	6.4	7.4	7.4	7.4	7.4
85°	3.7	3.7	3.7	4.6	4.6
87.5°	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)