

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: P256525

Luminaire Tested: **RSQ5089301EMWWB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1806-815-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RSQ5089301EMWWB
Description: HALO RSQ 5 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: 836.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 0.27' x H: 0')
CIE Type: Direct

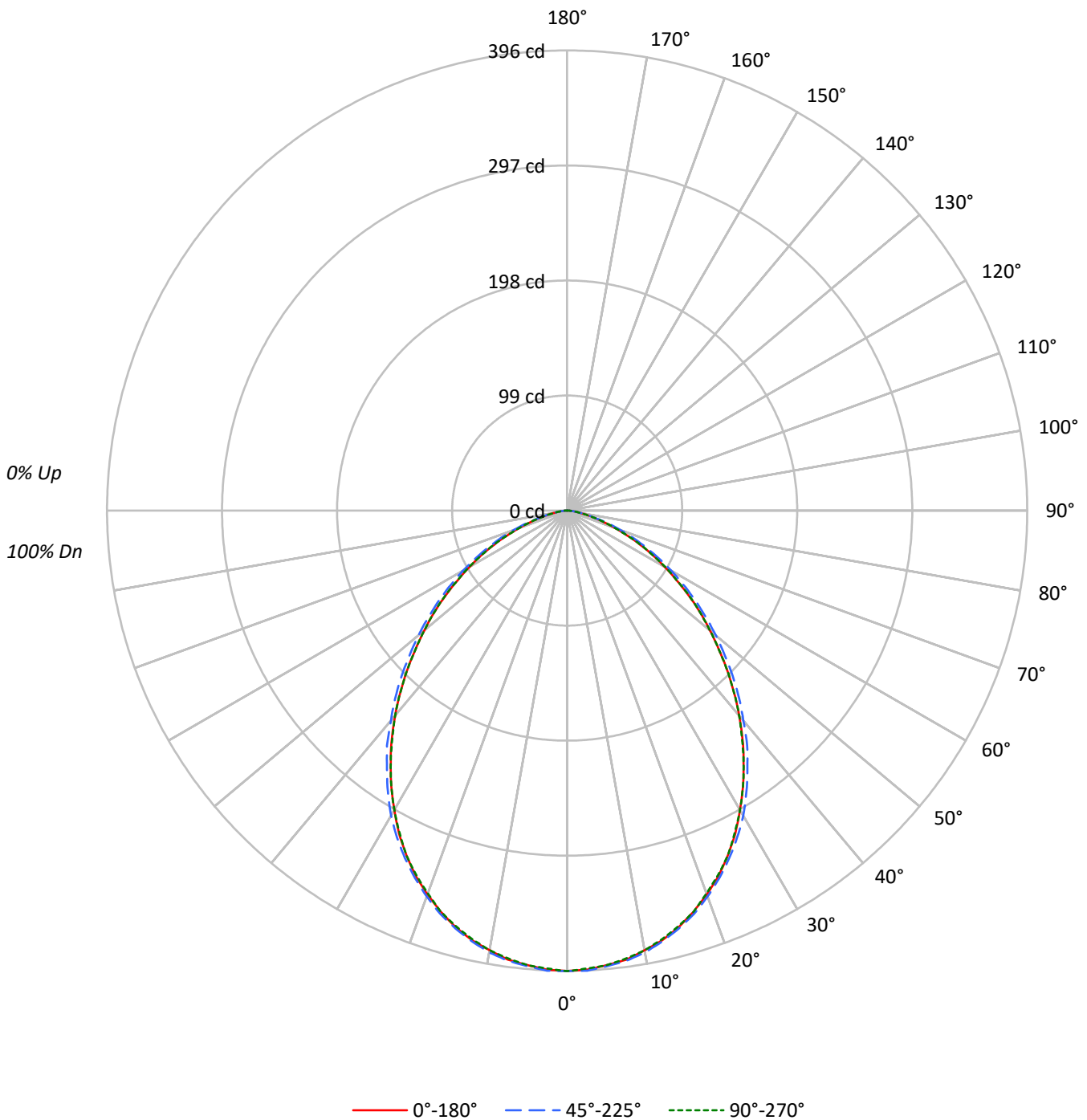
Input Watts (W): 9.43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	81	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	63	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	48	72	61	53	47	59	52	47	57	51	47	56	50	46					44				
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41					40				
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	58156	58156	58156
5°	57833	57965	57833
10°	57250	57533	57250
15°	56379	56531	56242
20°	54892	55188	54751
25°	52995	53449	52995
30°	50411	51360	50411
35°	47437	48441	47437
40°	44117	45190	44117
45°	40448	41797	40448
50°	36619	38103	36619
55°	32697	34360	32927
60°	28469	30376	28733
65°	23959	25903	24271
70°	18793	20809	18793
75°	13721	14798	13721
80°	9465	9465	9465
85°	6230	6230	6230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	4.5
10°-20°	104.5	12.5
20°-30°	151.0	18.1
30°-40°	167.3	20.0
40°-50°	153.2	18.3
50°-60°	117.7	14.1
60°-70°	71.7	8.6
70°-80°	28.1	3.4
80°-90°	5.2	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°	292.8	35.0
0°-40°	460.1	55.0
0°-60°	731.0	87.4
0°-90°	836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	393	394	394	392	393	37
15°	371	372	372	370	370	104
25°	327	329	330	328	327	150
35°	265	269	270	268	265	165
45°	195	200	201	200	195	150
55°	128	132	134	132	129	114
65°	69	72	75	72	70	69
75°	24	25	26	25	24	27
85°	4	5	4	5	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	396.3	396.3	396.3	396.3	396.3
2.5°	395.4	396.3	396.3	394.4	394.4
5°	392.6	393.5	393.5	391.6	392.6
7.5°	389.8	390.7	390.7	388.8	388.8
10°	384.2	386.1	386.1	384.2	384.2
12.5°	378.6	379.5	379.5	377.7	377.7
15°	371.1	372.1	372.1	370.2	370.2
17.5°	361.8	362.7	363.7	361.8	361.8
20°	351.5	353.4	353.4	352.5	350.6
22.5°	340.4	341.3	342.2	341.3	339.4
25°	327.3	329.2	330.1	328.2	327.3
27.5°	313.3	315.2	317.0	315.2	312.4
30°	297.5	300.3	303.1	300.3	297.5
32.5°	281.6	285.3	287.2	284.4	281.6
35°	264.8	268.6	270.4	267.6	264.8
37.5°	248.0	251.8	254.6	250.8	247.1
40°	230.3	234.1	235.9	234.1	230.3
42.5°	212.6	216.3	219.1	216.3	212.6
45°	194.9	199.6	201.4	199.6	194.9
47.5°	177.2	181.8	183.7	181.8	177.2
50°	160.4	164.1	166.9	165.1	160.4
52.5°	144.5	147.3	150.1	148.3	144.5
55°	127.8	132.4	134.3	132.4	128.7
57.5°	111.9	115.6	118.4	115.6	111.9
60°	97.0	100.7	103.5	100.7	97.9
62.5°	83.0	85.8	88.6	86.7	83.0
65°	69.0	71.8	74.6	71.8	69.9
67.5°	55.9	58.7	61.5	58.7	55.9
70°	43.8	46.6	48.5	46.6	43.8
72.5°	33.6	35.4	37.3	35.4	33.6
75°	24.2	25.2	26.1	25.2	24.2
77.5°	16.8	17.7	17.7	17.7	16.8
80°	11.2	11.2	11.2	11.2	11.2
82.5°	7.5	7.5	7.5	7.5	7.5
85°	3.7	4.7	3.7	4.7	3.7
87.5°	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)