

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: P256524

Luminaire Tested: **RSQ5089271EMWWB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256524
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: RSQ5089271EMWWB
Description: HALO RSQ 5 INCH LED FIXTURE WITH MATT WHITE BAFFLE, 800LM, 90CRI, 2700K
Light Source: (15) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 811.9 lumens
Efficiency: N/A
Efficacy: 86.0 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

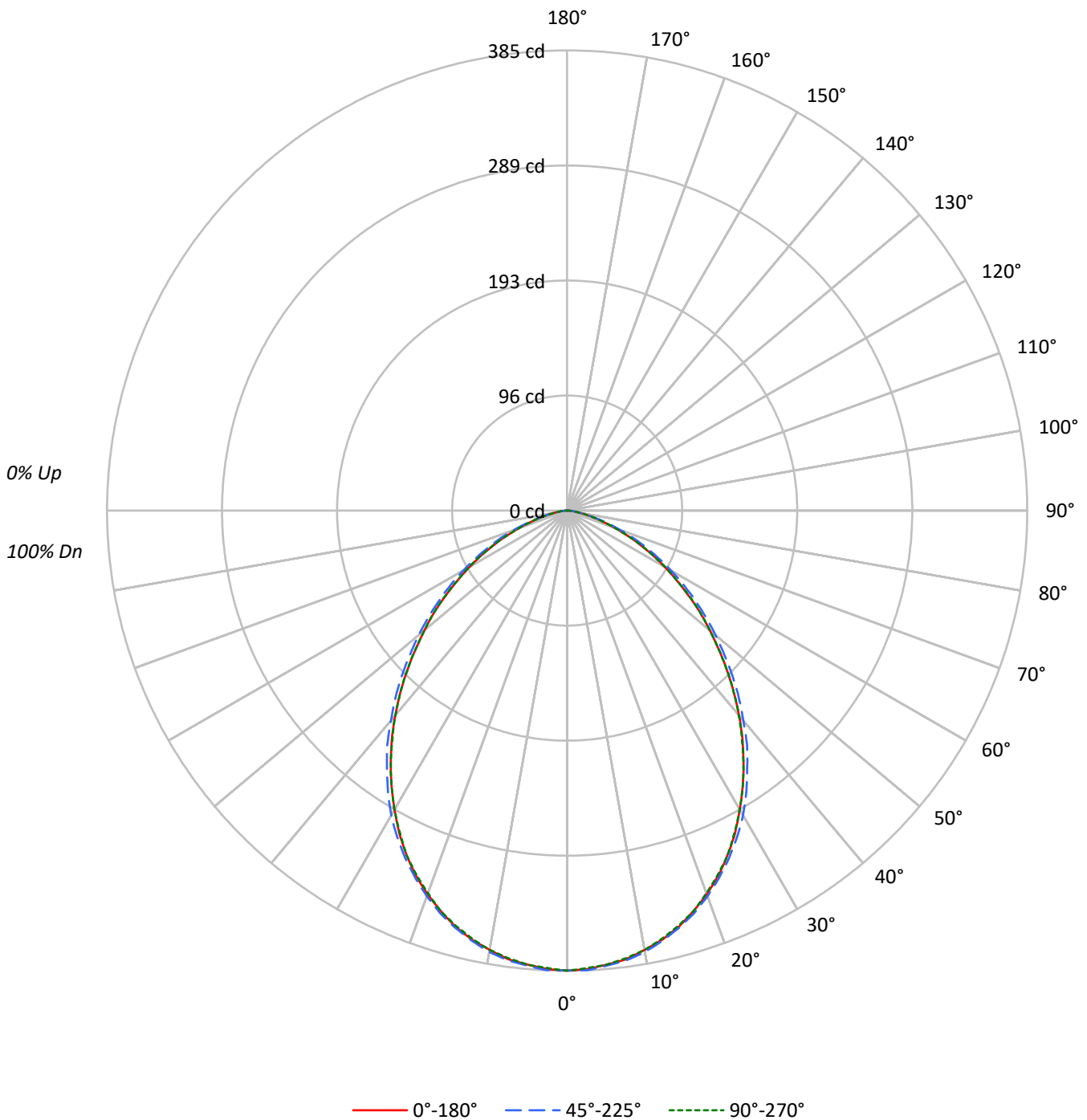
Input Watts (W): 9.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	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	32		42	36	31		41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56483	56483	56483
5°	56168	56301	56168
10°	55611	55879	55611
15°	54768	54905	54631
20°	53330	53611	53190
25°	51473	51910	51473
30°	48954	49885	48954
35°	46076	47061	46076
40°	42853	43887	42853
45°	39286	40593	39286
50°	35569	37007	35569
55°	31750	33362	31981
60°	27647	29496	27911
65°	23264	25174	23577
70°	18278	20209	18278
75°	13324	14401	13324
80°	9211	9211	9211
85°	6061	6061	6061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	4.5
10°-20°	101.5	12.5
20°-30°	146.7	18.1
30°-40°	162.5	20.0
40°-50°	148.8	18.3
50°-60°	114.3	14.1
60°-70°	69.6	8.6
70°-80°	27.3	3.4
80°-90°	5.0	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°	284.4	35.0
0°-40°	446.9	55.0
0°-60°	710.0	87.4
0°-90°	811.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	385	385	385	385	385	
5°	381	382	382	380	381	36
15°	360	361	361	360	360	101
25°	318	320	321	319	318	146
35°	257	261	263	260	257	161
45°	189	194	196	194	189	146
55°	124	129	130	129	125	111
65°	67	70	72	70	68	67
75°	24	24	25	24	24	26
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	384.9	384.9	384.9	384.9	384.9
2.5°	384.0	384.9	384.9	383.1	383.1
5°	381.3	382.2	382.2	380.4	381.3
7.5°	378.6	379.5	379.5	377.7	377.7
10°	373.2	375.0	375.0	373.2	373.2
12.5°	367.7	368.6	368.6	366.8	366.8
15°	360.5	361.4	361.4	359.6	359.6
17.5°	351.4	352.3	353.2	351.4	351.4
20°	341.5	343.3	343.3	342.4	340.6
22.5°	330.6	331.5	332.4	331.5	329.7
25°	317.9	319.7	320.6	318.8	317.9
27.5°	304.3	306.1	307.9	306.1	303.4
30°	288.9	291.6	294.4	291.6	288.9
32.5°	273.5	277.1	279.0	276.2	273.5
35°	257.2	260.8	262.7	259.9	257.2
37.5°	240.9	244.5	247.3	243.6	240.0
40°	223.7	227.3	229.1	227.3	223.7
42.5°	206.5	210.1	212.8	210.1	206.5
45°	189.3	193.8	195.6	193.8	189.3
47.5°	172.1	176.6	178.4	176.6	172.1
50°	155.8	159.4	162.1	160.3	155.8
52.5°	140.4	143.1	145.8	144.0	140.4
55°	124.1	128.6	130.4	128.6	125.0
57.5°	108.7	112.3	115.0	112.3	108.7
60°	94.2	97.8	100.5	97.8	95.1
62.5°	80.6	83.3	86.0	84.2	80.6
65°	67.0	69.7	72.5	69.7	67.9
67.5°	54.3	57.1	59.8	57.1	54.3
70°	42.6	45.3	47.1	45.3	42.6
72.5°	32.6	34.4	36.2	34.4	32.6
75°	23.5	24.5	25.4	24.5	23.5
77.5°	16.3	17.2	17.2	17.2	16.3
80°	10.9	10.9	10.9	10.9	10.9
82.5°	7.2	7.2	7.2	7.2	7.2
85°	3.6	4.5	3.6	4.5	3.6
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)