

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: P284403

Luminaire Tested: **RSQ5089FS1EMWWB-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1811-050-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RSQ5089FS1EMWWB-3500K
Description: HALO RSQ 5 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 3500K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 880.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.24
Luminous Opening: Rectangular (W 0.27' x L: 0.27' x H: 0')
CIE Type: Direct

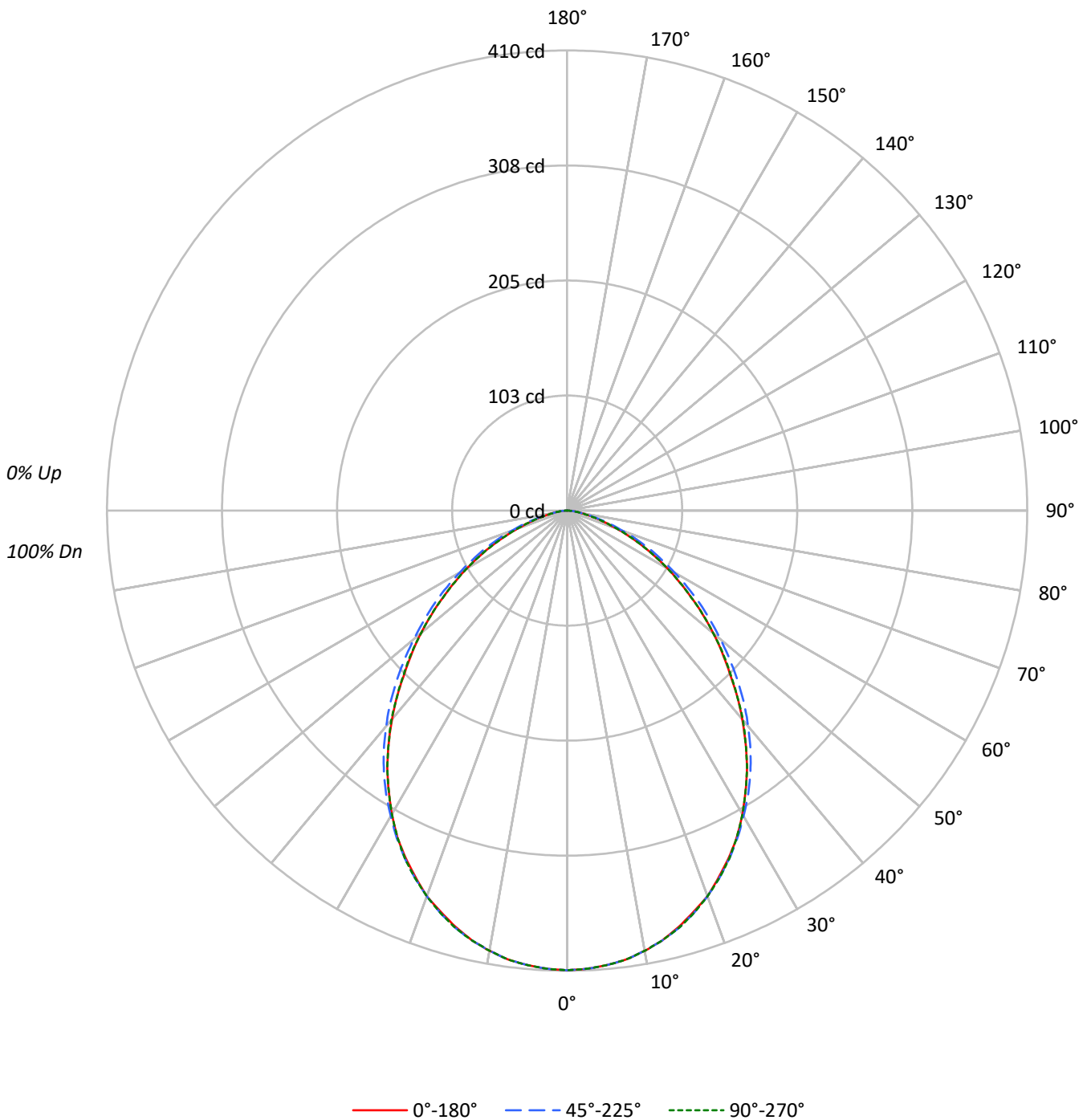
Input Watts (W): 9.35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	92	91	89	87		
2	102	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	60	53	78	67	59	53	65	58	53	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	48	42	54	47	42	52	46	41	51	45	41	39		
8	64	51	43	38	63	51	43	38	49	43	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	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	60107	60107	60107
5°	59880	59880	59880
10°	59351	59351	59351
15°	58338	58490	58490
20°	57094	57094	57094
25°	55214	55375	55375
30°	52919	53274	52919
35°	50071	51002	50071
40°	46493	48063	46684
45°	42502	44619	42710
50°	38810	40682	38810
55°	34590	36944	34590
60°	30347	32460	30347
65°	25591	28091	25591
70°	20209	22397	20209
75°	15082	16839	15082
80°	10394	10394	10394
85°	8587	8587	8587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	4.4
10°-20°	108.2	12.3
20°-30°	157.1	17.8
30°-40°	175.7	20.0
40°-50°	161.9	18.4
50°-60°	125.2	14.2
60°-70°	76.8	8.7
70°-80°	30.8	3.5
80°-90°	5.9	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°	303.8	34.5
0°-40°	479.5	54.5
0°-60°	766.6	87.1
0°-90°	880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	406	406	406	406	406	39
15°	384	385	385	384	385	108
25°	341	342	342	341	342	157
35°	280	281	285	281	280	174
45°	205	210	215	210	206	159
55°	135	140	144	140	135	121
65°	74	78	81	77	74	73
75°	27	28	30	28	27	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°	409.6	409.6	409.6	409.6	409.6
2.5°	408.6	408.6	408.6	408.6	408.6
5°	406.5	406.5	406.5	405.5	406.5
7.5°	403.4	403.4	403.4	402.4	403.4
10°	398.3	398.3	398.3	397.3	398.3
12.5°	392.2	392.2	392.2	391.1	392.2
15°	384.0	385.0	385.0	384.0	385.0
17.5°	374.8	375.8	375.8	374.8	375.8
20°	365.6	365.6	365.6	364.5	365.6
22.5°	353.3	354.3	354.3	354.3	354.3
25°	341.0	342.0	342.0	341.0	342.0
27.5°	327.7	328.7	328.7	327.7	327.7
30°	312.3	314.4	314.4	313.3	312.3
32.5°	295.9	298.0	300.0	298.0	295.9
35°	279.5	280.6	284.7	280.6	279.5
37.5°	261.1	264.2	268.3	264.2	261.1
40°	242.7	246.8	250.9	245.7	243.7
42.5°	224.2	227.3	233.5	227.3	224.2
45°	204.8	209.9	215.0	209.9	205.8
47.5°	187.4	191.5	196.6	191.5	188.4
50°	170.0	174.1	178.2	174.1	170.0
52.5°	152.6	156.7	160.8	156.7	152.6
55°	135.2	140.3	144.4	140.3	135.2
57.5°	118.8	122.9	127.0	123.9	118.8
60°	103.4	107.5	110.6	107.5	103.4
62.5°	88.1	92.2	95.2	91.1	88.1
65°	73.7	77.8	80.9	76.8	73.7
67.5°	59.4	63.5	66.6	63.5	59.4
70°	47.1	50.2	52.2	50.2	47.1
72.5°	35.8	37.9	41.0	37.9	35.8
75°	26.6	27.6	29.7	27.6	26.6
77.5°	18.4	19.5	20.5	19.5	18.4
80°	12.3	13.3	12.3	13.3	12.3
82.5°	8.2	8.2	8.2	8.2	8.2
85°	5.1	5.1	5.1	5.1	5.1
87.5°	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)