

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: P284402

Luminaire Tested: **RSQ5089FS1EMWWB-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284402
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-3000K
Description: HALO RSQ 5 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 3000K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

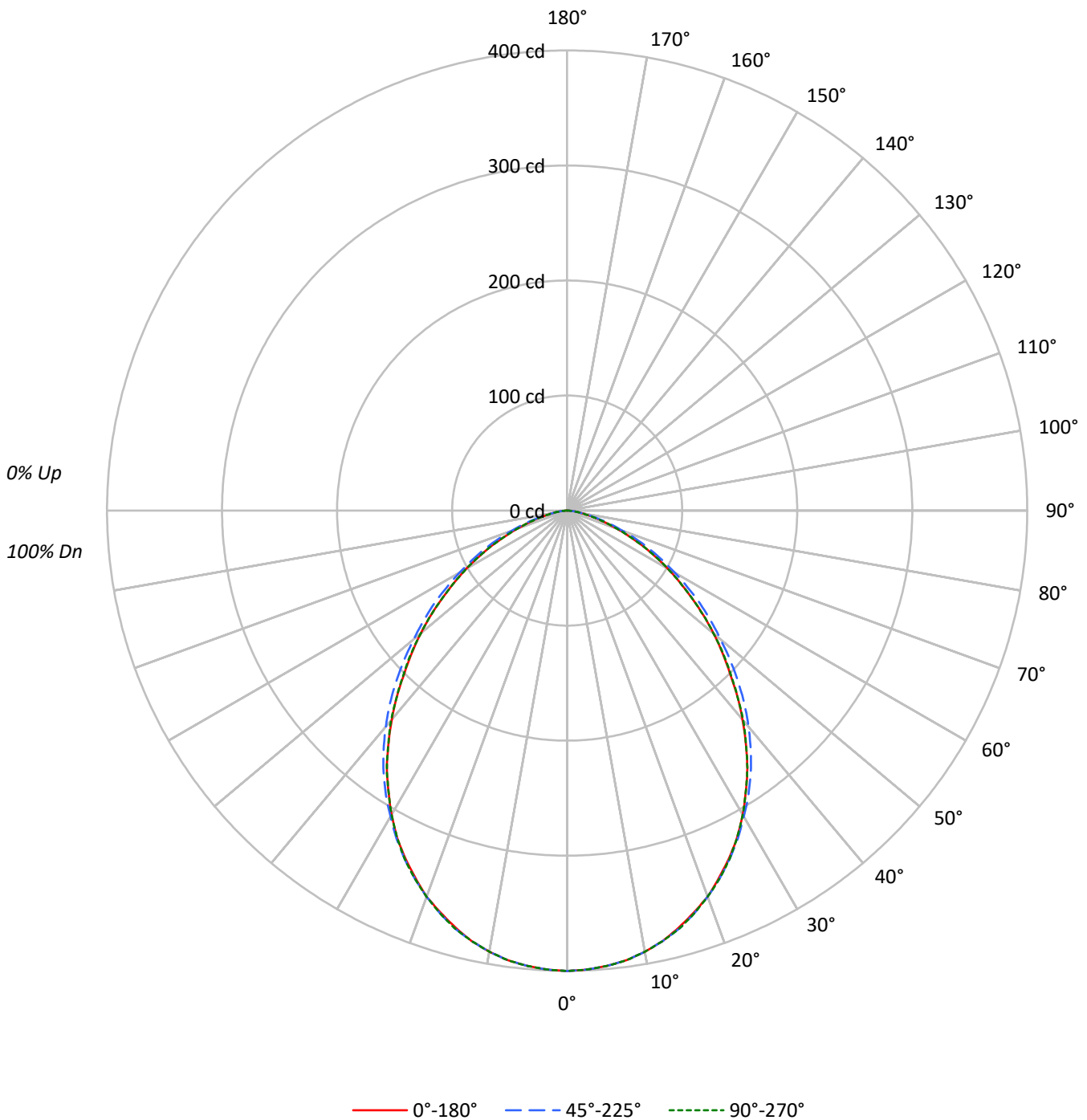
Lumens per Lamp: N/A
Luminaire Lumens: 860.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.24
Luminous Opening: Rectangular (W 0.27' x L: 0.27' x H: 0')
CIE Type: Direct

Input Watts (W): 9.32
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	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°	58743	58743	58743
5°	58525	58525	58525
10°	58010	58010	58010
15°	57017	57169	57169
20°	55782	55782	55782
25°	53951	54113	54113
30°	51716	52054	51716
35°	48942	49838	48942
40°	45439	46971	45630
45°	41527	43602	41734
50°	37920	39746	37920
55°	33797	36100	33797
60°	29672	31727	29672
65°	25001	27466	25001
70°	19737	21882	19737
75°	14742	16443	14742
80°	10141	10141	10141
85°	8419	8419	8419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	4.4
10°-20°	105.7	12.3
20°-30°	153.5	17.8
30°-40°	171.7	20.0
40°-50°	158.2	18.4
50°-60°	122.3	14.2
60°-70°	75.0	8.7
70°-80°	30.0	3.5
80°-90°	5.8	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°	296.9	34.5
0°-40°	468.6	54.5
0°-60°	749.1	87.1
0°-90°	860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	397	397	397	396	397	38
15°	375	376	376	375	376	106
25°	333	334	334	333	334	153
35°	273	274	278	274	273	170
45°	200	205	210	205	201	155
55°	132	137	141	137	132	119
65°	72	76	79	75	72	72
75°	26	27	29	27	26	28
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°	400.3	400.3	400.3	400.3	400.3
2.5°	399.3	399.3	399.3	399.3	399.3
5°	397.3	397.3	397.3	396.3	397.3
7.5°	394.3	394.3	394.3	393.3	394.3
10°	389.3	389.3	389.3	388.3	389.3
12.5°	383.3	383.3	383.3	382.3	383.3
15°	375.3	376.3	376.3	375.3	376.3
17.5°	366.2	367.2	367.2	366.2	367.2
20°	357.2	357.2	357.2	356.2	357.2
22.5°	345.2	346.2	346.2	346.2	346.2
25°	333.2	334.2	334.2	333.2	334.2
27.5°	320.2	321.2	321.2	320.2	320.2
30°	305.2	307.2	307.2	306.2	305.2
32.5°	289.2	291.2	293.2	291.2	289.2
35°	273.2	274.2	278.2	274.2	273.2
37.5°	255.2	258.2	262.2	258.2	255.2
40°	237.2	241.2	245.2	240.2	238.2
42.5°	219.1	222.2	228.2	222.2	219.1
45°	200.1	205.1	210.1	205.1	201.1
47.5°	183.1	187.1	192.1	187.1	184.1
50°	166.1	170.1	174.1	170.1	166.1
52.5°	149.1	153.1	157.1	153.1	149.1
55°	132.1	137.1	141.1	137.1	132.1
57.5°	116.1	120.1	124.1	121.1	116.1
60°	101.1	105.1	108.1	105.1	101.1
62.5°	86.1	90.1	93.1	89.1	86.1
65°	72.0	76.1	79.1	75.1	72.0
67.5°	58.0	62.0	65.0	62.0	58.0
70°	46.0	49.0	51.0	49.0	46.0
72.5°	35.0	37.0	40.0	37.0	35.0
75°	26.0	27.0	29.0	27.0	26.0
77.5°	18.0	19.0	20.0	19.0	18.0
80°	12.0	13.0	12.0	13.0	12.0
82.5°	8.0	8.0	8.0	8.0	8.0
85°	5.0	5.0	5.0	5.0	5.0
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)