

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: P256534

Luminaire Tested: **RL4099S1EWH -3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P256534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25992-R2)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RL4099S1EWH -3500K  
Description: Halo RL 4in Downlight - SeleCCTable 3500K  
Light Source: -  
Ballast/Driver: -

**Summary**

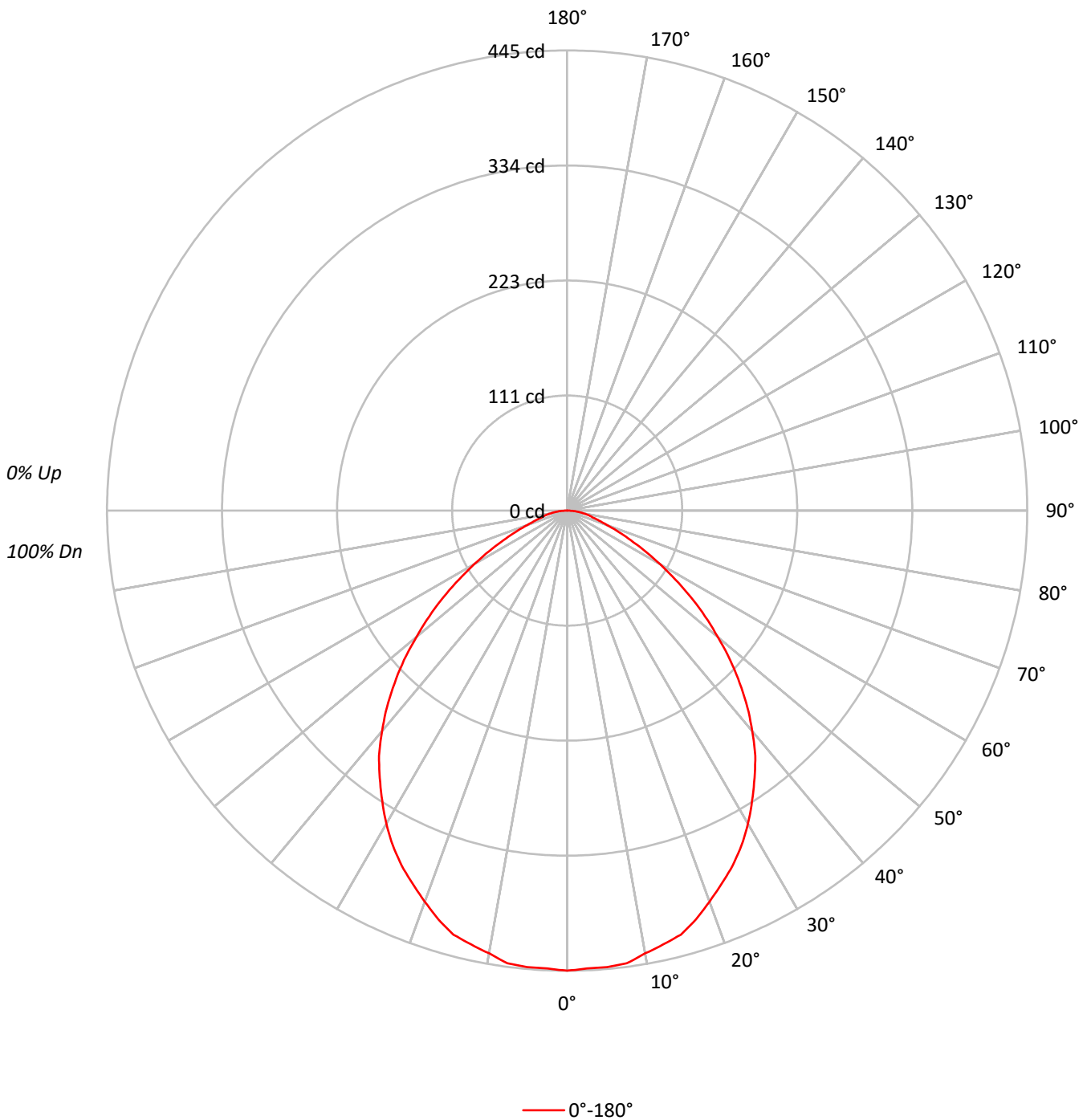
Lumens per Lamp: N/A  
Luminaire Lumens: 951.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.7  
Input Voltage (V): NR  
Input Current (Ain): 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	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	42928
5°	42927
10°	42601
15°	42414
20°	41329
25°	40318
30°	38973
35°	37210
40°	35079
45°	32217
50°	28551
55°	24577
60°	19992
65°	15502
70°	11510
75°	9507
80°	9446
85°	9410



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	4.4
10°-20°	119.1	12.5
20°-30°	174.1	18.3
30°-40°	197.3	20.7
40°-50°	181.6	19.1
50°-60°	130.5	13.7
60°-70°	68.9	7.2
70°-80°	28.7	3.0
80°-90°	8.8	0.9
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°	335.3	35.3
0°-40°	532.6	56.0
0°-60°	844.6	88.8
0°-90°	951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	445	
5°	443	42
15°	425	119
25°	379	174
35°	316	197
45°	236	182
55°	146	130
65°	68	69
75°	26	29
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	444.9
2.5°	443.2
5°	443.2
7.5°	441.6
10°	434.8
12.5°	429.7
15°	424.6
17.5°	414.4
20°	402.5
22.5°	390.6
25°	378.7
27.5°	365.1
30°	349.8
32.5°	332.9
35°	315.9
37.5°	298.9
40°	278.5
42.5°	258.1
45°	236.1
47.5°	214.0
50°	190.2
52.5°	168.1
55°	146.1
57.5°	124.0
60°	103.6
62.5°	84.9
65°	67.9
67.5°	54.3
70°	40.8
72.5°	32.3
75°	25.5
77.5°	22.1
80°	17.0
82.5°	11.9
85°	8.5
87.5°	3.4
90°	0.0

(END OF REPORT)