

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: P256532

Luminaire Tested: **RL4099S1EWH -2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P256532  
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 -2700K  
Description: Halo RL 4in Downlight - SeleCCTable 2700K  
Light Source: -  
Ballast/Driver: -

**Summary**

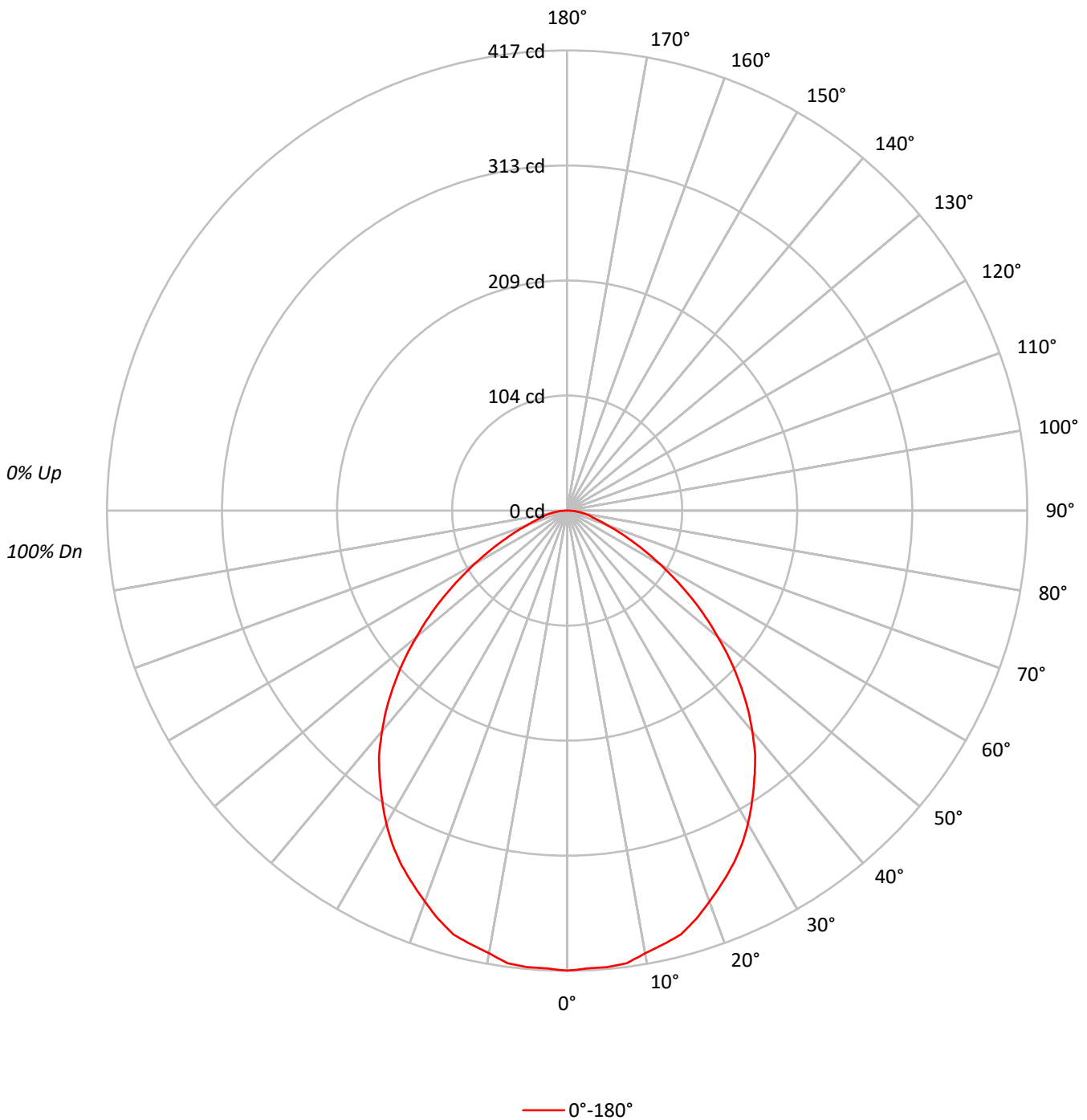
Lumens per Lamp: N/A  
Luminaire Lumens: 891.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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°	40226
5°	40225
10°	39906
15°	39737
20°	38721
25°	37773
30°	36522
35°	34854
40°	32862
45°	30184
50°	26750
55°	23013
60°	18738
65°	14521
70°	10777
75°	8910
80°	8835
85°	8857



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.4	4.4
10°-20°	111.6	12.5
20°-30°	163.1	18.3
30°-40°	184.9	20.7
40°-50°	170.1	19.1
50°-60°	122.2	13.7
60°-70°	64.6	7.2
70°-80°	26.9	3.0
80°-90°	8.2	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°	314.1	35.3
0°-40°	499.0	56.0
0°-60°	791.4	88.8
0°-90°	891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	417	
5°	415	39
15°	398	112
25°	355	163
35°	296	185
45°	221	170
55°	137	122
65°	64	65
75°	24	27
85°	8	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	416.9
2.5°	415.3
5°	415.3
7.5°	413.7
10°	407.3
12.5°	402.6
15°	397.8
17.5°	388.2
20°	377.1
22.5°	366.0
25°	354.8
27.5°	342.1
30°	327.8
32.5°	311.9
35°	295.9
37.5°	280.0
40°	260.9
42.5°	241.9
45°	221.2
47.5°	200.5
50°	178.2
52.5°	157.5
55°	136.8
57.5°	116.2
60°	97.1
62.5°	79.6
65°	63.6
67.5°	50.9
70°	38.2
72.5°	30.2
75°	23.9
77.5°	20.7
80°	15.9
82.5°	11.1
85°	8.0
87.5°	3.2
90°	0.0

(END OF REPORT)