

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: P256540

Luminaire Tested: **RL56129S1EWH -4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P256540  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27627)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RL56129S1EWH -4000K  
Description: Halo RL 5/6in Downlight - SeleCCTable 4000K  
Light Source: -  
Ballast/Driver: -

**Summary**

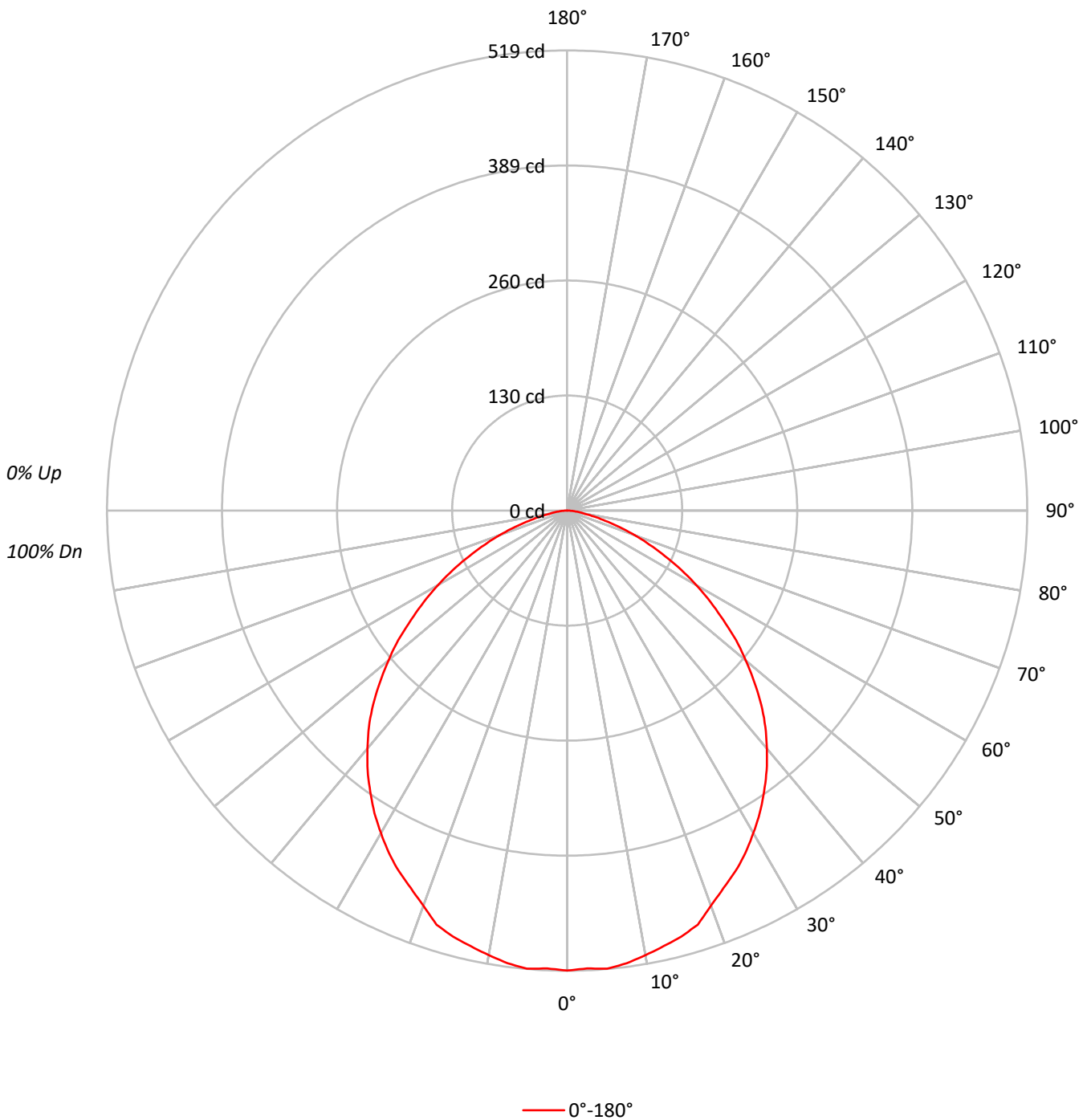
Lumens per Lamp: N/A  
Luminaire Lumens: 1248.9 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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	102	99	107	104	100	97	99	96	94		95	93	91		92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	67		76	70	66		73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58		68	62	57		66	61	57	55
5	78	66	58	52	76	65	57	51	63	56	51		61	55	50		59	54	50	48
6	73	60	51	45	71	59	51	45	57	50	45		56	49	44		54	48	44	42
7	67	55	46	40	66	54	46	40	52	45	40		51	44	40		49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36		47	40	36		46	40	35	33
9	59	46	38	33	57	45	38	32	44	37	32		43	37	32		42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29		40	34	29		39	33	29	27

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

	0°
0°	22333
5°	22418
10°	22258
15°	22171
20°	21727
25°	21330
30°	20881
35°	20346
40°	19689
45°	18858
50°	17630
55°	16124
60°	14501
65°	12419
70°	10235
75°	7403
80°	4810
85°	3804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	3.9
10°-20°	140.0	11.2
20°-30°	206.7	16.5
30°-40°	242.0	19.4
40°-50°	238.0	19.1
50°-60°	192.6	15.4
60°-70°	121.7	9.7
70°-80°	49.4	4.0
80°-90°	9.5	0.8
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°	395.8	31.7
0°-40°	637.9	51.1
0°-60°	1068.4	85.5
0°-90°	1248.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1248.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	519	
5°	519	49
15°	497	140
25°	449	207
35°	387	242
45°	310	238
55°	215	193
65°	122	122
75°	44	49
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	518.7
2.5°	516.8
5°	518.7
7.5°	514.9
10°	509.1
12.5°	503.2
15°	497.4
17.5°	489.7
20°	474.2
22.5°	460.7
25°	449.0
27.5°	435.5
30°	420.0
32.5°	404.5
35°	387.1
37.5°	369.7
40°	350.3
42.5°	331.0
45°	309.7
47.5°	286.5
50°	263.2
52.5°	240.0
55°	214.8
57.5°	191.6
60°	168.4
62.5°	145.2
65°	121.9
67.5°	100.6
70°	81.3
72.5°	61.9
75°	44.5
77.5°	31.0
80°	19.4
82.5°	13.5
85°	7.7
87.5°	3.9
90°	0.0

(END OF REPORT)