

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: P#

Luminaire Tested: **RL56099S1EWH -4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27975)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RL56099S1EWH -4000K
Description: Halo RL 5/6in Downlight - SeleCCTable 4000K
Light Source: -
Ballast/Driver: -

Summary

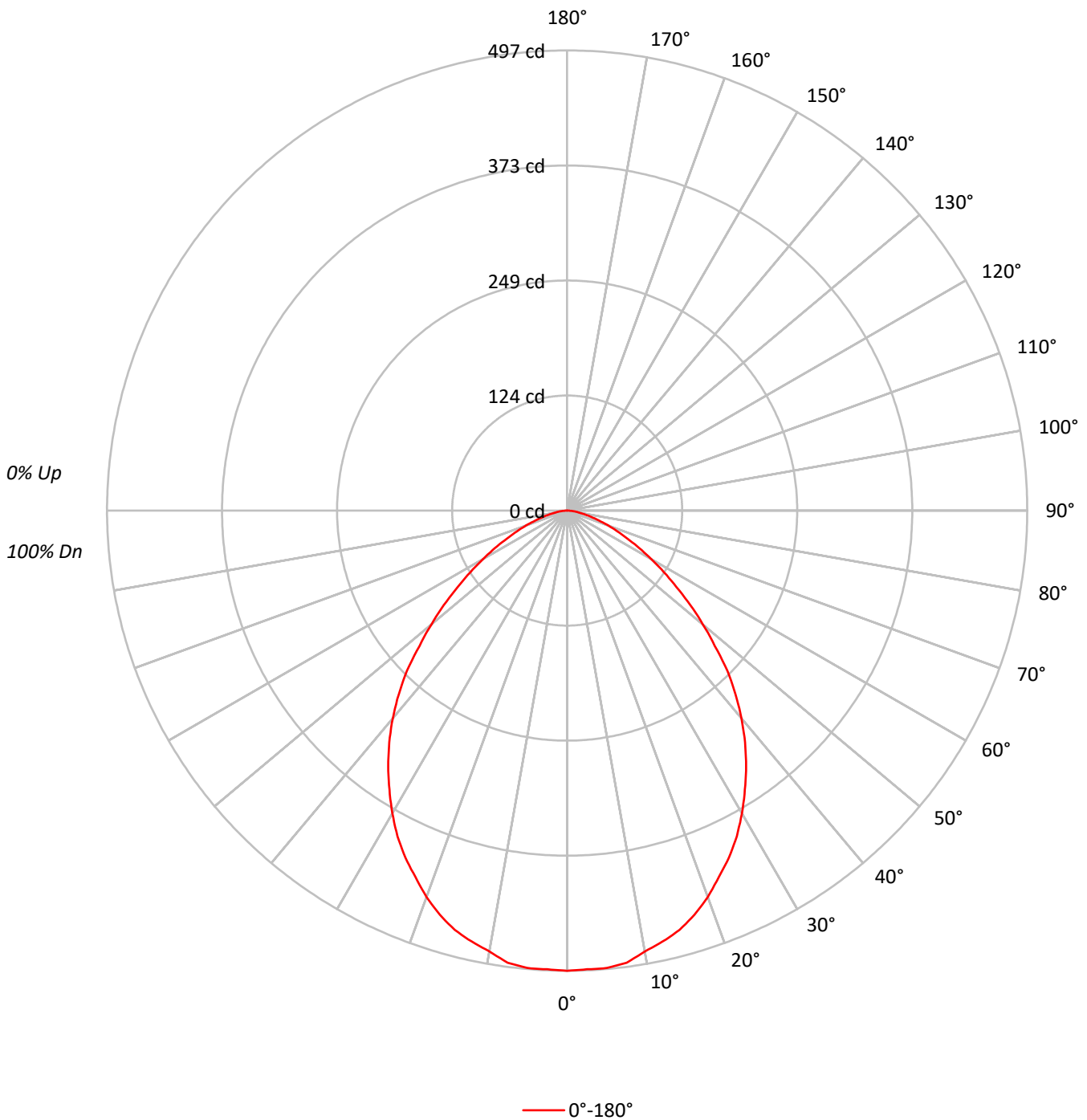
Lumens per Lamp: N/A
Luminaire Lumens: 1006.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 12.1
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	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81		87	83	80		84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	70		78	73	69		76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57	52	48	46
7	70	58	49	44	68	57	49	44	55	48	43		54	48	43		53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	36		45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27251
5°	27289
10°	26914
15°	26612
20°	25908
25°	25018
30°	23902
35°	22553
40°	20968
45°	18963
50°	16341
55°	13792
60°	11490
65°	9352
70°	7581
75°	5740
80°	4262
85°	3522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	4.7
10°-20°	131.8	13.1
20°-30°	190.0	18.9
30°-40°	210.2	20.9
40°-50°	187.2	18.6
50°-60°	130.3	13.0
60°-70°	72.8	7.2
70°-80°	30.0	3.0
80°-90°	6.7	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°	368.7	36.7
0°-40°	578.9	57.5
0°-60°	896.5	89.1
0°-90°	1006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	497	
5°	496	47
15°	469	132
25°	414	190
35°	337	210
45°	245	187
55°	144	130
65°	72	73
75°	27	30
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	497.1
2.5°	495.9
5°	495.9
7.5°	492.5
10°	483.5
12.5°	476.8
15°	468.9
17.5°	457.6
20°	444.1
22.5°	428.3
25°	413.6
27.5°	396.7
30°	377.6
32.5°	357.3
35°	337.0
37.5°	315.6
40°	293.0
42.5°	269.4
45°	244.6
47.5°	216.4
50°	191.6
52.5°	167.9
55°	144.3
57.5°	124.0
60°	104.8
62.5°	87.9
65°	72.1
67.5°	58.6
70°	47.3
72.5°	36.1
75°	27.1
77.5°	20.3
80°	13.5
82.5°	10.1
85°	5.6
87.5°	2.3
90°	0.0

(END OF REPORT)