

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 -2700K**

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 -2700K
Description: Halo RL 5/6in Downlight - SeleCCTable 2700K
Light Source: -
Ballast/Driver: -

Summary

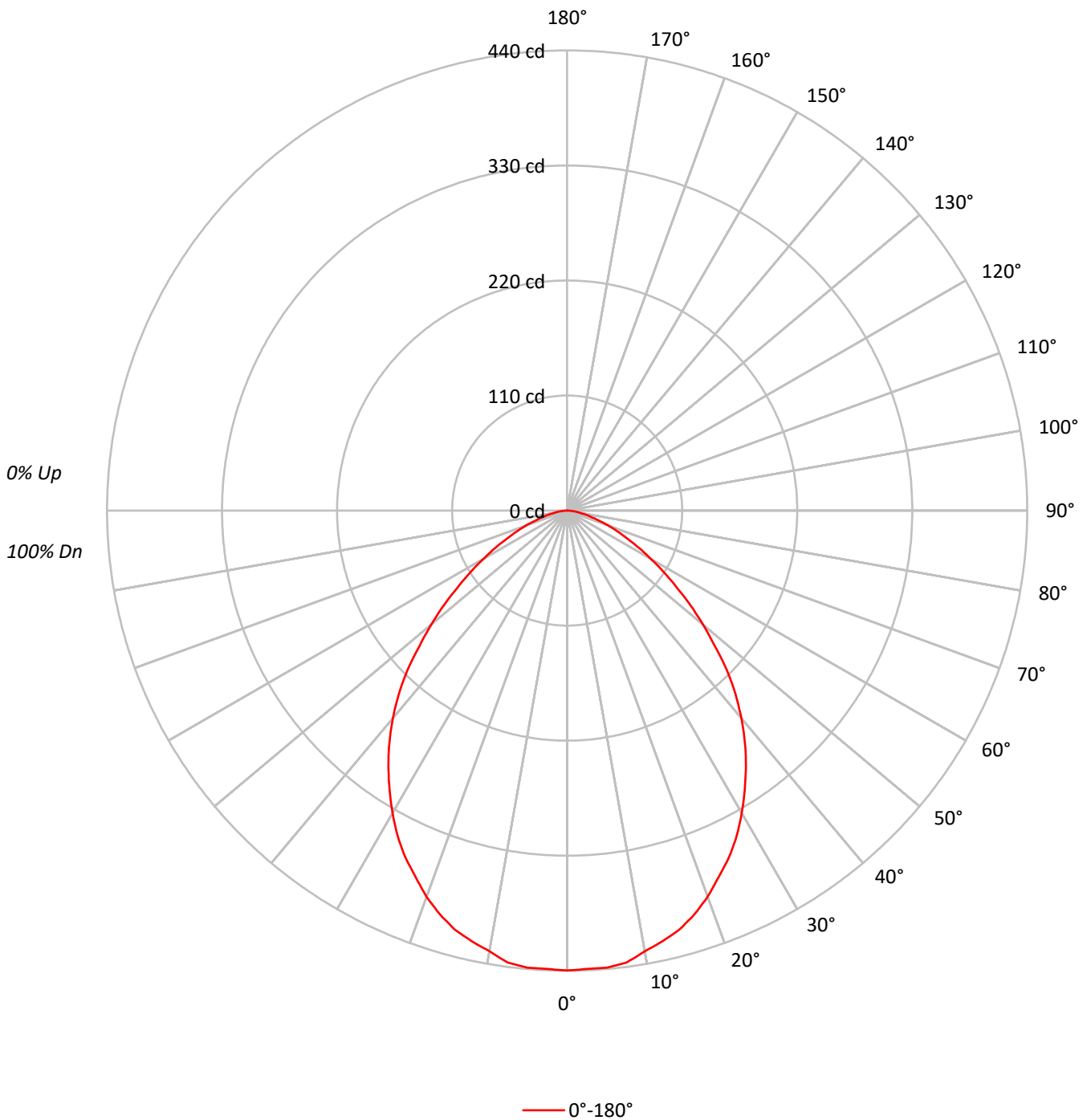
Lumens per Lamp: N/A
Luminaire Lumens: 890.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	24104
5°	24141
10°	23814
15°	23542
20°	22921
25°	22138
30°	21142
35°	19950
40°	18556
45°	16777
50°	14456
55°	12196
60°	10164
65°	8276
70°	6716
75°	5062
80°	3788
85°	3145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	4.7
10°-20°	116.6	13.1
20°-30°	168.1	18.9
30°-40°	186.0	20.9
40°-50°	165.7	18.6
50°-60°	115.3	13.0
60°-70°	64.4	7.2
70°-80°	26.5	3.0
80°-90°	6.0	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°	326.2	36.7
0°-40°	512.2	57.5
0°-60°	793.1	89.1
0°-90°	890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	890.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	440	
5°	439	42
15°	415	117
25°	366	168
35°	298	186
45°	216	166
55°	128	115
65°	64	64
75°	24	27
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	439.7
2.5°	438.7
5°	438.7
7.5°	435.8
10°	427.8
12.5°	421.8
15°	414.8
17.5°	404.8
20°	392.9
22.5°	378.9
25°	366.0
27.5°	351.0
30°	334.0
32.5°	316.1
35°	298.1
37.5°	279.2
40°	259.3
42.5°	238.3
45°	216.4
47.5°	191.5
50°	169.5
52.5°	148.6
55°	127.6
57.5°	109.7
60°	92.7
62.5°	77.8
65°	63.8
67.5°	51.9
70°	41.9
72.5°	31.9
75°	23.9
77.5°	17.9
80°	12.0
82.5°	9.0
85°	5.0
87.5°	2.0
90°	0.0

(END OF REPORT)