

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: P256536

Luminaire Tested: **RL4099S1EWH -5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256536
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 -5000K
Description: Halo RL 4in Downlight - SeleCCTable 5000K
Light Source: -
Ballast/Driver: -

Summary

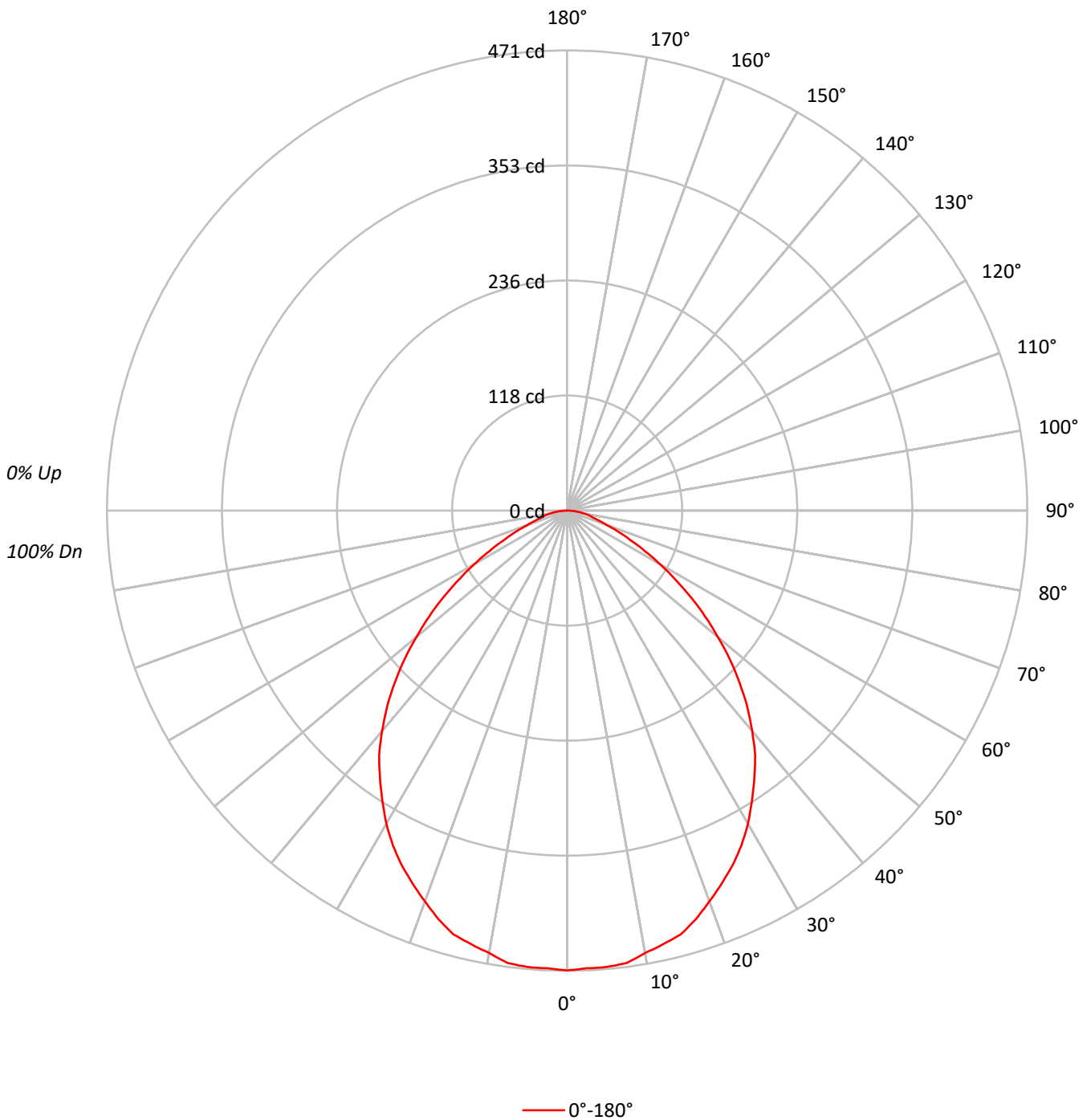
Lumens per Lamp: N/A
Luminaire Lumens: 1006.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	45417
5°	45416
10°	45060
15°	44862
20°	43722
25°	42649
30°	41235
35°	39354
40°	37107
45°	34073
50°	30202
55°	25990
60°	21150
65°	16416
70°	12159
75°	10028
80°	10002
85°	9964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	4.4
10°-20°	126.0	12.5
20°-30°	184.2	18.3
30°-40°	208.7	20.7
40°-50°	192.1	19.1
50°-60°	138.0	13.7
60°-70°	72.9	7.2
70°-80°	30.3	3.0
80°-90°	9.3	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°	354.7	35.3
0°-40°	563.4	56.0
0°-60°	893.5	88.8
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°	471	
5°	469	45
15°	449	126
25°	401	184
35°	334	209
45°	250	192
55°	154	138
65°	72	73
75°	27	30
85°	9	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	470.7
2.5°	468.9
5°	468.9
7.5°	467.1
10°	459.9
12.5°	454.5
15°	449.1
17.5°	438.3
20°	425.8
22.5°	413.2
25°	400.6
27.5°	386.2
30°	370.1
32.5°	352.1
35°	334.1
37.5°	316.2
40°	294.6
42.5°	273.1
45°	249.7
47.5°	226.4
50°	201.2
52.5°	177.9
55°	154.5
57.5°	131.1
60°	109.6
62.5°	89.8
65°	71.9
67.5°	57.5
70°	43.1
72.5°	34.1
75°	26.9
77.5°	23.4
80°	18.0
82.5°	12.6
85°	9.0
87.5°	3.6
90°	0.0

(END OF REPORT)