

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: P256539

Luminaire Tested: **RL56129S1EWH -3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256539
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 -3500K
Description: Halo RL 5/6in Downlight - SeleCCTable 3500K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1227.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

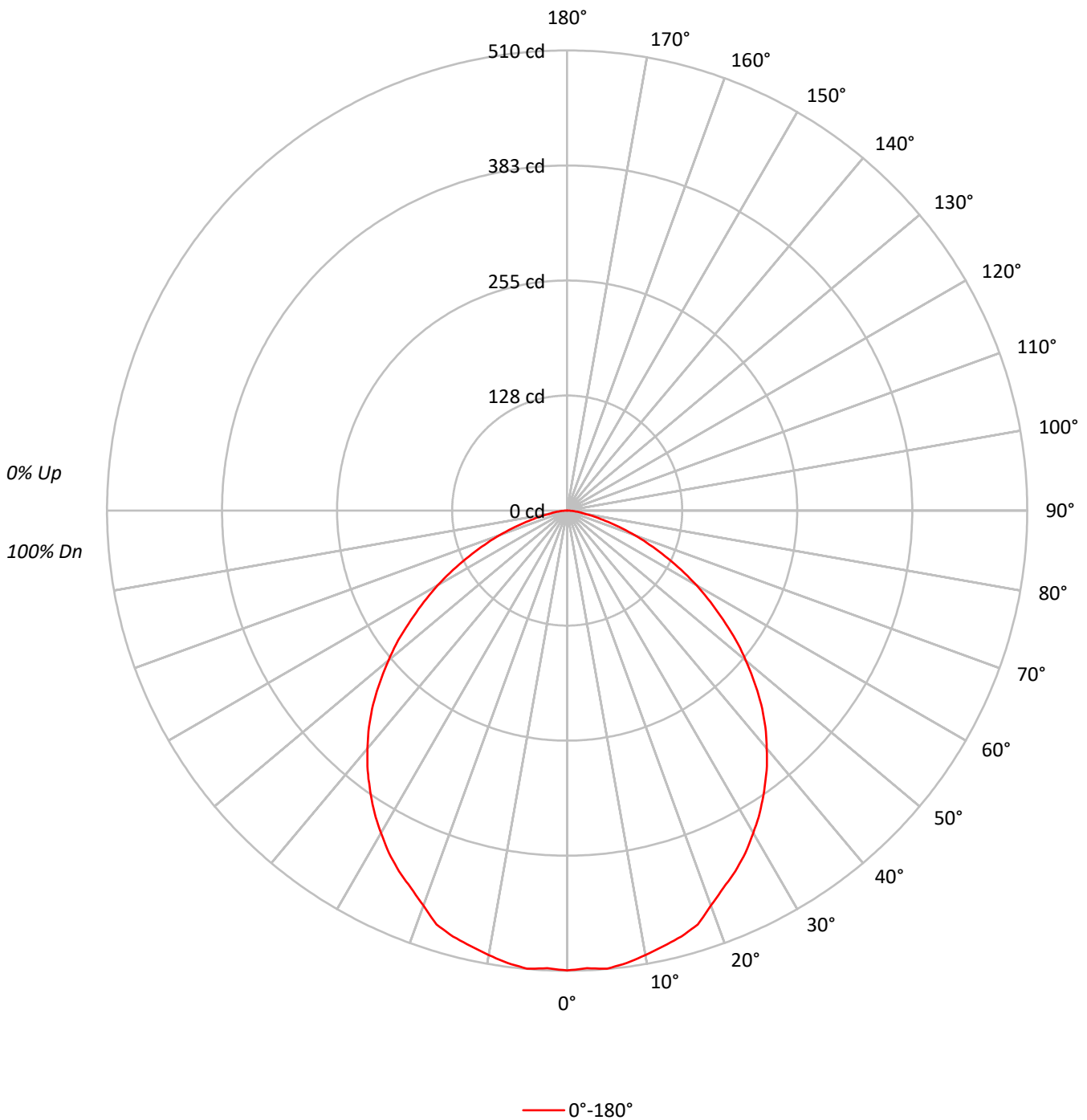
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: RL56129S1EWH -3500K

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°	21941
5°	22025
10°	21864
15°	21784
20°	21347
25°	20955
30°	20513
35°	19989
40°	19346
45°	18523
50°	17322
55°	15846
60°	14243
65°	12205
70°	10058
75°	7270
80°	4711
85°	3754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	3.9
10°-20°	137.5	11.2
20°-30°	203.0	16.5
30°-40°	237.8	19.4
40°-50°	233.8	19.1
50°-60°	189.2	15.4
60°-70°	119.5	9.7
70°-80°	48.5	4.0
80°-90°	9.3	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°	388.9	31.7
0°-40°	626.6	51.1
0°-60°	1049.6	85.5
0°-90°	1227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1227.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	510	
5°	510	48
15°	489	138
25°	441	203
35°	380	238
45°	304	234
55°	211	189
65°	120	120
75°	44	49
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	509.6
2.5°	507.7
5°	509.6
7.5°	505.8
10°	500.1
12.5°	494.4
15°	488.7
17.5°	481.1
20°	465.9
22.5°	452.5
25°	441.1
27.5°	427.8
30°	412.6
32.5°	397.4
35°	380.3
37.5°	363.2
40°	344.2
42.5°	325.2
45°	304.2
47.5°	281.4
50°	258.6
52.5°	235.8
55°	211.1
57.5°	188.2
60°	165.4
62.5°	142.6
65°	119.8
67.5°	98.9
70°	79.9
72.5°	60.8
75°	43.7
77.5°	30.4
80°	19.0
82.5°	13.3
85°	7.6
87.5°	3.8
90°	0.0

(END OF REPORT)