

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: P303585

Luminaire Tested: **HLA406FL9FS1EMWR-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P303585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1906595A001)
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLA406FL9FS1EMWR-2700K
Description: 4IN HLA LED DOWNLIGHT WITH 40 DEGREE OPTIC AND 2700K LEDS
Light Source: -
Ballast/Driver: -

Summary

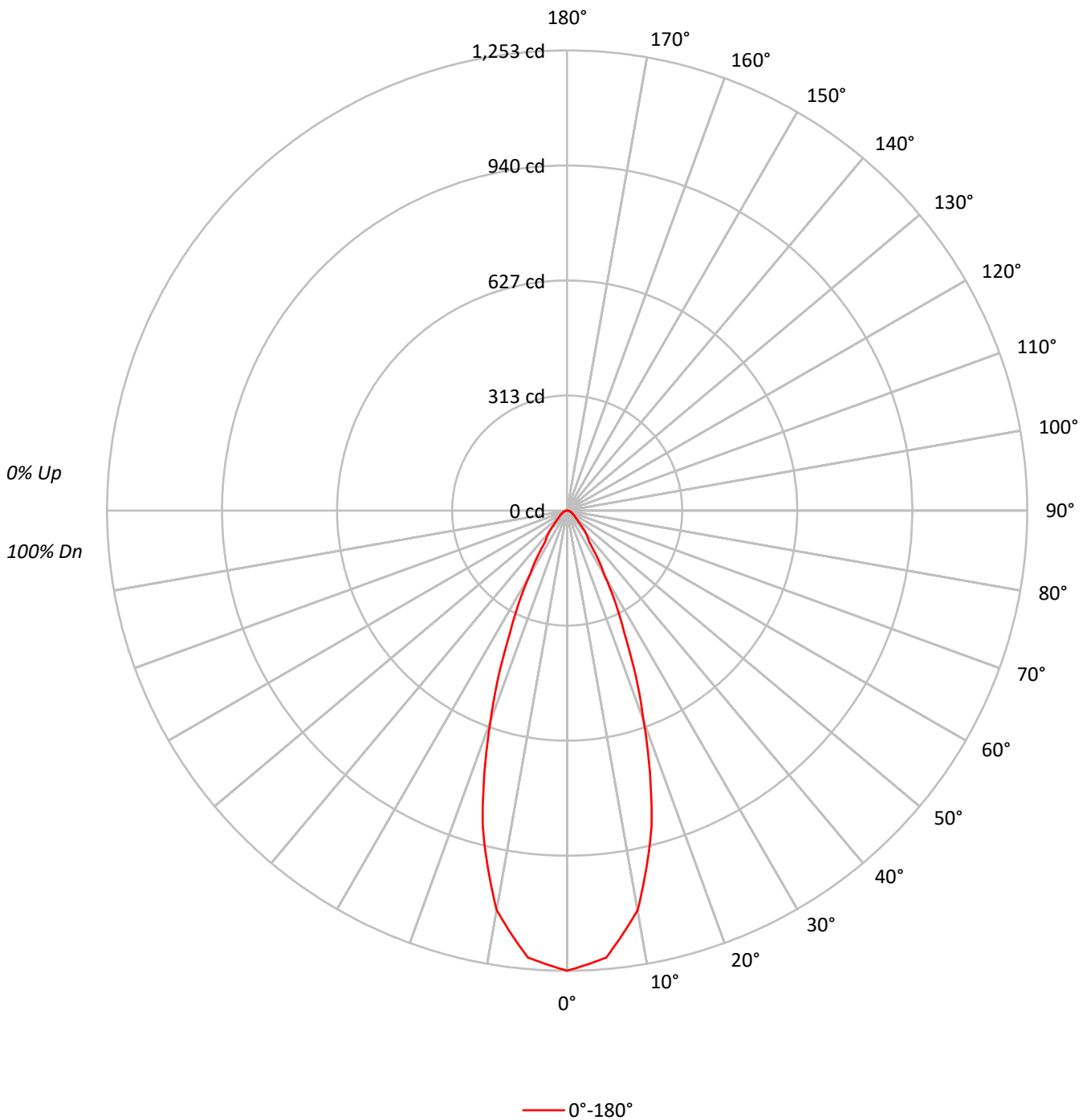
Lumens per Lamp: N/A
Luminaire Lumens: 688.5 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.63
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 10.2
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	113	110	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92	90	88	87
3	103	96	91	87	101	95	90	87	92	88	85		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	80		85	82	79		83	80	78	76
5	93	85	80	76	92	84	79	75	83	78	75		81	77	74		79	76	73	72
6	89	81	75	71	88	80	75	71	78	74	70		77	73	70		76	72	69	68
7	85	77	71	67	84	76	71	67	75	70	66		73	69	66		72	69	66	64
8	82	73	67	63	81	72	67	63	71	66	63		70	66	63		69	65	62	61
9	78	69	64	60	77	69	64	60	68	63	60		67	63	60		66	62	59	58
10	75	66	61	57	74	66	61	57	65	60	57		64	60	57		64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	274737
5°	268919
10°	245909
15°	201817
20°	142229
25°	88965
30°	52084
35°	28108
40°	22070
45°	13583
50°	10439
55°	8602
60°	7587
65°	7005
70°	6668
75°	6524
80°	6566
85°	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	16.4
10°-20°	241.7	35.1
20°-30°	175.1	25.4
30°-40°	76.1	11.1
40°-50°	37.4	5.4
50°-60°	20.7	3.0
60°-70°	13.5	2.0
70°-80°	8.2	1.2
80°-90°	2.9	0.4
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°	529.6	76.9
0°-40°	605.7	88.0
0°-60°	663.9	96.4
0°-90°	688.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	688.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1253	
5°	1222	113
15°	889	242
25°	368	175
35°	105	76
45°	44	37
55°	22	21
65°	14	14
75°	8	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1252.9
5°	1221.7
10°	1104.4
15°	889.0
20°	609.5
25°	367.7
30°	205.7
35°	105.0
40°	77.1
45°	43.8
50°	30.6
55°	22.5
60°	17.3
65°	13.5
70°	10.4
75°	7.7
80°	5.2
85°	2.7
90°	0.0

(END OF REPORT)