

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: P21271

Luminaire Tested: **ML709827ICAT120D-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P21271
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709827ICAT120D-493PS06-H750ICAT
Description: HALO 6 INCH LED DOWNLIGHT WITH 900 Lmn MODULE, SOLITE LENS AND WHITE REFLECTOR---ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING A 500 WATT, NIST TRACEABLE, OMNI-DIRECTIONAL LAB LUMEN STANDARD IN THE GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET---
Light Source: (1)SMT LED 2700K
(1)CL-L241-C26L2-A 14.3 WATTS
Ballast/Driver: (1)ELECTRONIC DRIVER
(1)RHPS311BL-CLO

Summary

Lumens per Lamp: 658 (1 lamp)
Luminaire Lumens: 658.9 lumens
Efficiency: 100.1%
Efficacy: 47.1 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

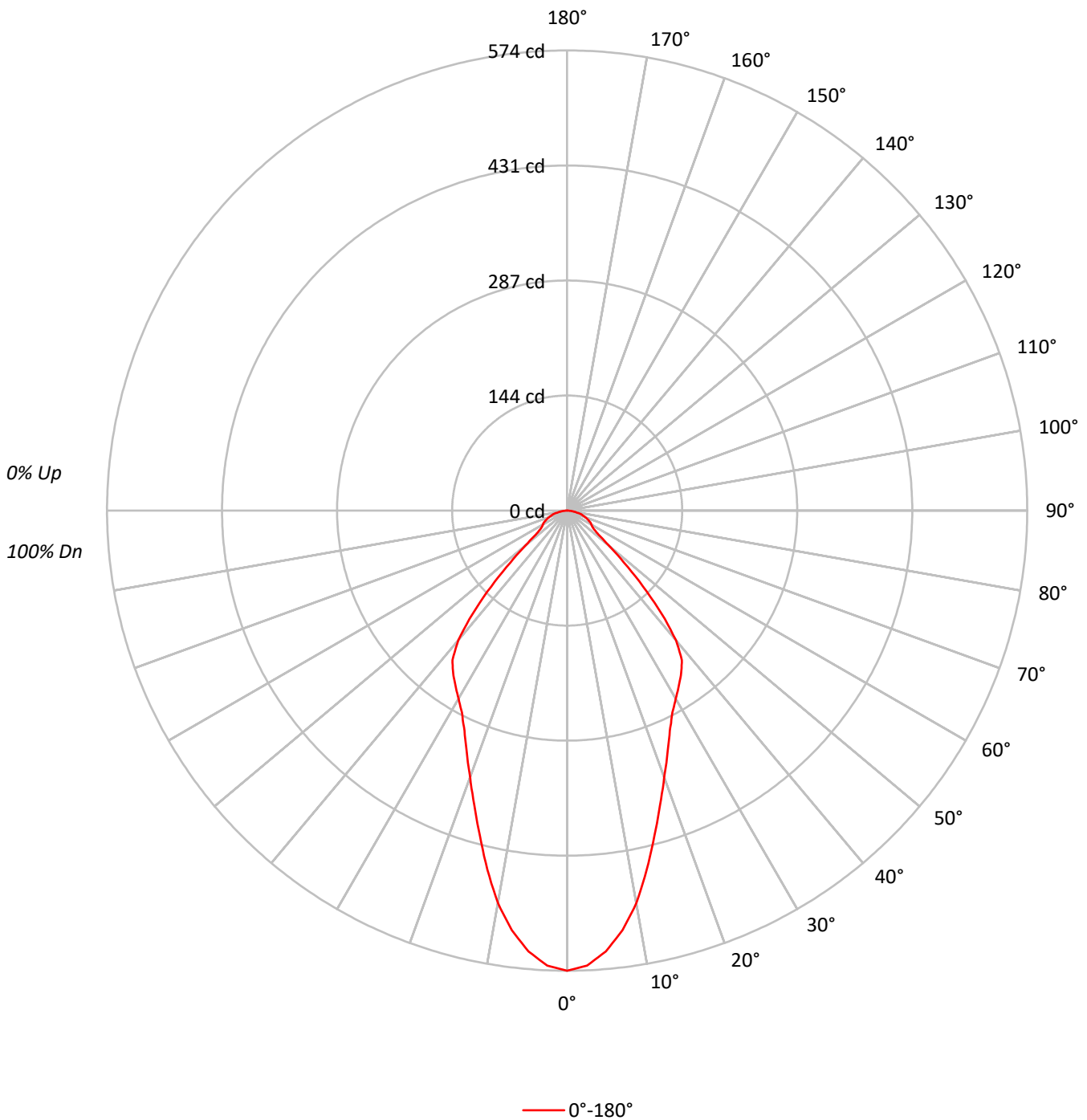
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): 0.12072
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34262
5°	33075
10°	30124
15°	25954
20°	22487
25°	19956
30°	18679
35°	18071
40°	16441
45°	11312
50°	6222
55°	4267
60°	4178
65°	4237
70°	4189
75°	4151
80°	3437
85°	2055



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	50.9	7.7	7.7
10°-20°	117.6	17.9	17.9
20°-30°	140.8	21.4	21.4
30°-40°	153.7	23.3	23.4
40°-50°	103.7	15.7	15.8
50°-60°	39.7	6.0	6.0
60°-70°	29.6	4.5	4.5
70°-80°	18.5	2.8	2.8
80°-90°	4.3	0.7	0.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	309.4	47.0	47.0
0°-40°	463.1	70.3	70.4
0°-60°	606.5	92.0	92.2
0°-90°	658.9	100.0	100.1
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	658.9	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	574	
5°	552	51
15°	420	118
25°	303	141
35°	248	154
45°	134	104
55°	41	40
65°	30	30
75°	18	18
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	574
2.5°	568
5°	552
7.5°	528
10°	497
12.5°	459
15°	420
17.5°	385
20°	354
22.5°	327
25°	303
27.5°	284
30°	271
32.5°	259
35°	248
37.5°	235
40°	211
42.5°	175
45°	134
47.5°	96
50°	67
52.5°	49
55°	41
57.5°	37
60°	35
62.5°	33
65°	30
67.5°	27
70°	24
72.5°	21
75°	18
77.5°	14
80°	10
82.5°	7
85°	3
87.5°	1
90°	0

(END OF REPORT)