

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: P20258

Luminaire Tested: **ML709840ICAT120D-492PS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20258
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709840ICAT120D-492PS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH ALUMINUM SHOWER TRIM AND GLASS LENS
Light Source: (1) CITIZEN HIGHT OUTPUT LED
LED 14 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 573 (1 lamp)
Luminaire Lumens: 573.9 lumens
Efficiency: 100.2%
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.25
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

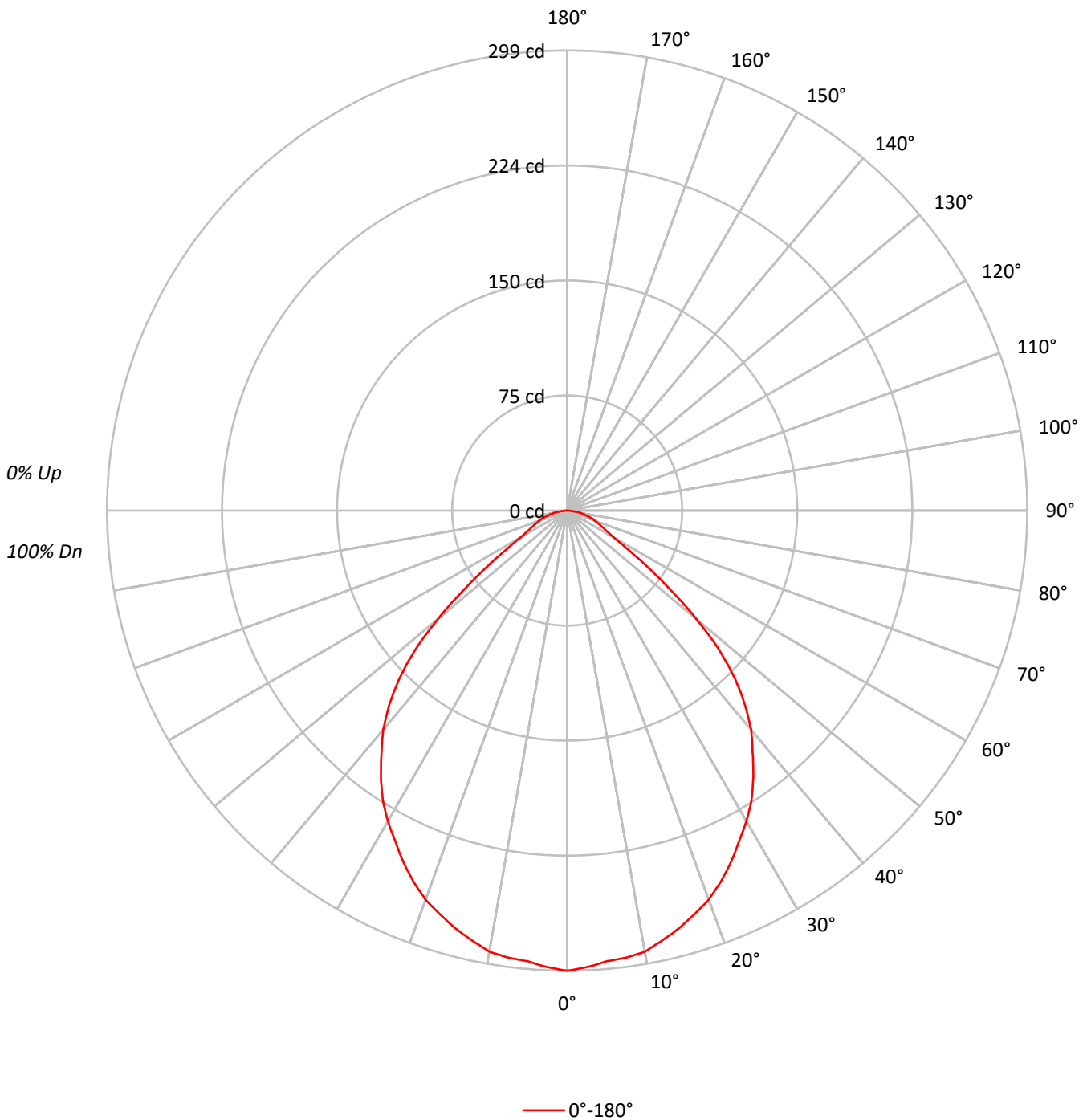
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83		88	85	82		85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73		80	75	72		78	74	70	69
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	82	71	64	58	81	70	63	58	68	62	57		66	61	56		65	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51		61	55	51		59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51	45	41	39
9	63	51	43	38	62	50	43	38	49	42	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	40	35	46	39	35		45	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16391
5°	16179
10°	16199
15°	15948
20°	15693
25°	15243
30°	14749
35°	14121
40°	13311
45°	11939
50°	9381
55°	6021
60°	3837
65°	3243
70°	3045
75°	2754
80°	2526
85°	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.0	4.9	4.9
10°-20°	79.2	13.8	13.8
20°-30°	115.9	20.2	20.2
30°-40°	131.6	22.9	23.0
40°-50°	116.7	20.3	20.4
50°-60°	59.1	10.3	10.3
60°-70°	25.5	4.4	4.4
70°-80°	14.4	2.5	2.5
80°-90°	3.5	0.6	0.6
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°	223.1	38.9	38.9
0°-40°	354.7	61.8	61.9
0°-60°	530.5	92.4	92.6
0°-90°	573.9	100.0	100.2
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°	573.9	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	299	
5°	294	28
15°	281	79
25°	252	116
35°	211	132
45°	154	117
55°	63	59
65°	25	25
75°	13	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	299
2.5°	297
5°	294
7.5°	293
10°	291
12.5°	286
15°	281
17.5°	275
20°	269
22.5°	261
25°	252
27.5°	242
30°	233
32.5°	223
35°	211
37.5°	198
40°	186
42.5°	171
45°	154
47.5°	134
50°	110
52.5°	85
55°	63
57.5°	46
60°	35
62.5°	29
65°	25
67.5°	22
70°	19
72.5°	17
75°	13
77.5°	11
80°	8
82.5°	5
85°	3
87.5°	1
90°	0

(END OF REPORT)