

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: P20263

Luminaire Tested: **ML709840ICAT120D-493SNS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20263
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709840ICAT120D-493SNS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SATIN NICKEL FINISH LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND SOLITE GLASS LENS
Light Source: HIGH OUTPUT LED
14 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

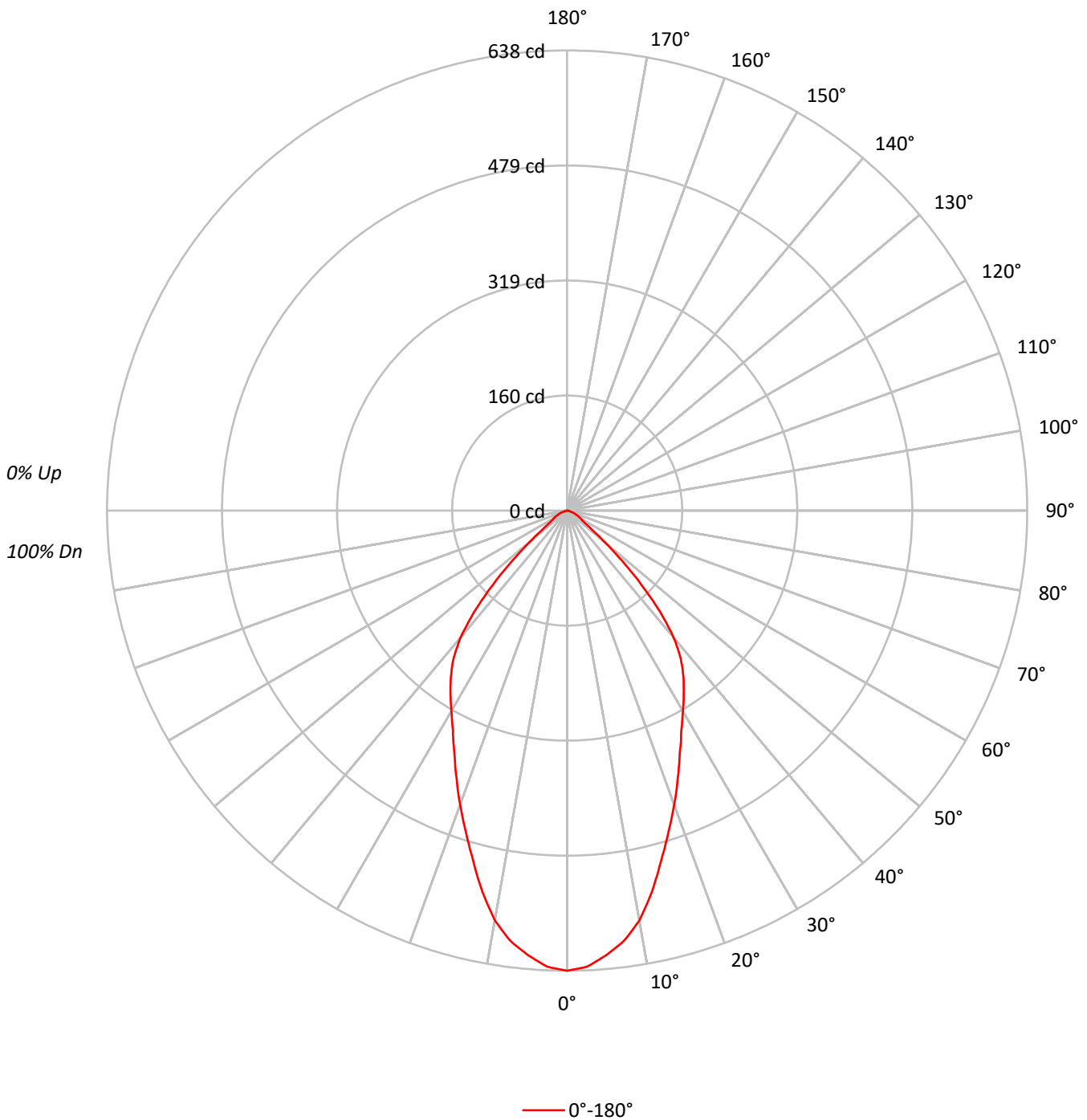
Lumens per Lamp: 706 (1 lamp)
Luminaire Lumens: 707.6 lumens
Efficiency: 100.2%
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): 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	117	117	117	117	111	111	111		107	107	107		102	102	102	100
1	113	110	107	104	110	107	105	102	103	101	99		100	98	96		96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	100	92	86	82	97	91	85	81	88	83	80		85	82	78		83	80	77	75
4	93	85	78	73	91	83	77	73	81	76	72		79	75	71		77	73	70	68
5	88	78	71	66	86	77	71	66	75	70	65		73	69	65		72	68	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	55	76	66	60	55	65	59	55		64	58	54		62	58	54	53
8	73	62	56	51	72	62	55	51	61	55	50		59	54	50		58	54	50	48
9	69	58	52	47	68	58	51	47	57	51	47		56	50	47		55	50	46	45
10	66	55	48	44	64	54	48	44	53	47	43		52	47	43		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34975
5°	34063
10°	32119
15°	28547
20°	25319
25°	22380
30°	20320
35°	18805
40°	16459
45°	11319
50°	5714
55°	2867
60°	2302
65°	1946
70°	1443
75°	847
80°	631
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	57.8	8.2	8.2
10°-20°	140.9	19.9	20.0
20°-30°	171.0	24.2	24.2
30°-40°	174.3	24.6	24.7
40°-50°	112.2	15.9	15.9
50°-60°	31.3	4.4	4.4
60°-70°	14.8	2.1	2.1
70°-80°	4.9	0.7	0.7
80°-90°	0.5	0.1	0.1
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°	369.7	52.2	52.4
0°-40°	544.0	76.9	77.1
0°-60°	687.4	97.1	97.4
0°-90°	707.6	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°	707.6	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	638	
5°	619	58
15°	503	141
25°	370	171
35°	281	174
45°	146	112
55°	30	31
65°	15	15
75°	4	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	638
2.5°	633
5°	619
7.5°	602
10°	577
12.5°	542
15°	503
17.5°	467
20°	434
22.5°	401
25°	370
27.5°	343
30°	321
32.5°	301
35°	281
37.5°	259
40°	230
42.5°	191
45°	146
47.5°	103
50°	67
52.5°	43
55°	30
57.5°	24
60°	21
62.5°	18
65°	15
67.5°	12
70°	9
72.5°	6
75°	4
77.5°	3
80°	2
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)