

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: P20261

Luminaire Tested: **ML709840ICAT120D -493WBS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20261
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709840ICAT120D -493WBS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN
LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND
SOLITE GLASS LENS
Light Source: HIGH OUTPUT LED
LED 14 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 839.5 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

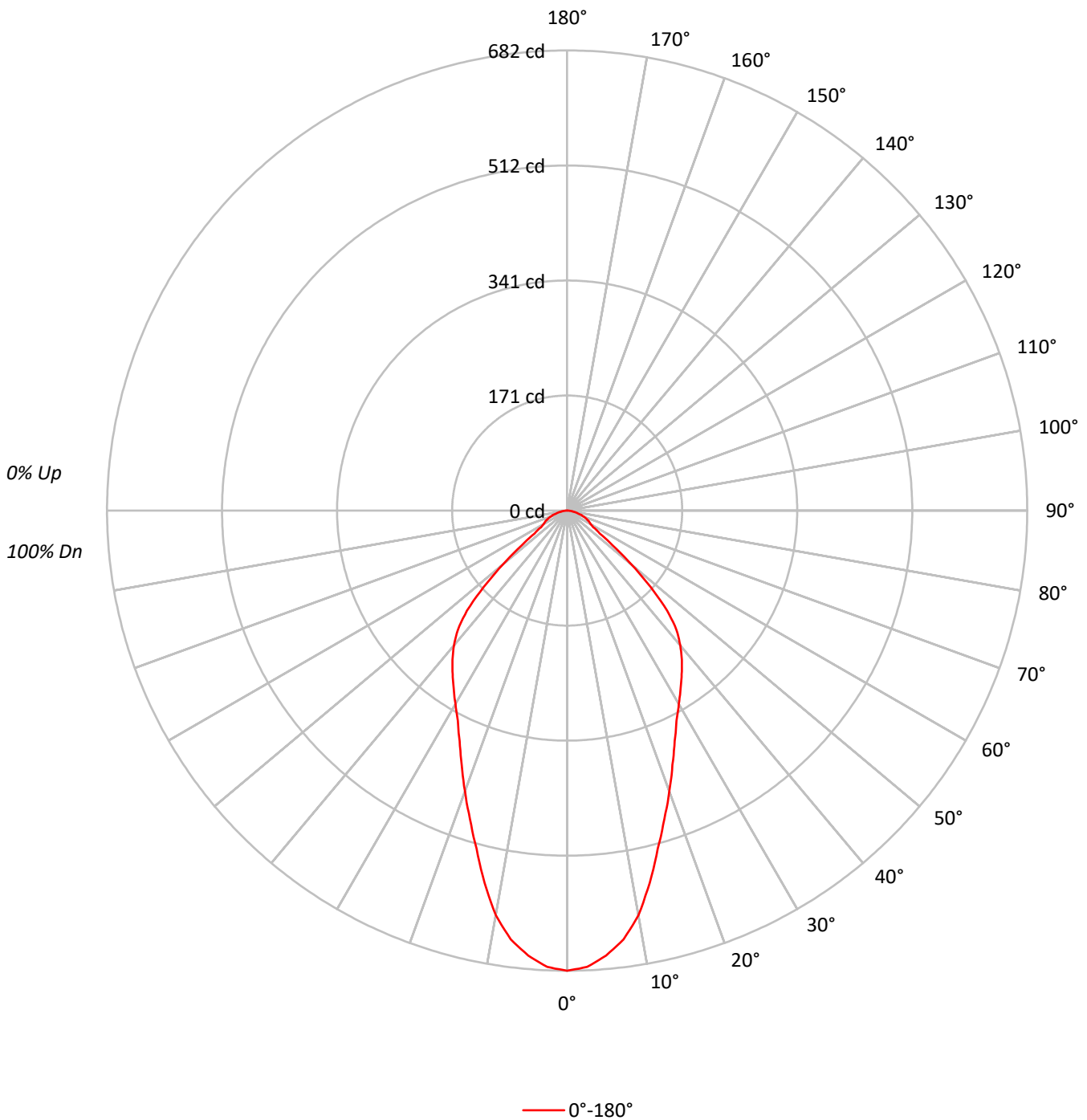
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	111	111	111		106	106	106		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	82	77	95	87	81	77	85	80	75		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67		75	70	66		73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61		69	64	60		68	63	59	58
6	79	68	61	56	78	67	60	55	66	59	55		64	59	54		63	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37387
5°	36430
10°	33901
15°	29455
20°	25844
25°	22804
30°	20953
35°	19809
40°	18678
45°	16281
50°	10575
55°	5639
60°	4386
65°	4410
70°	4167
75°	3601
80°	3157
85°	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	7.3
10°-20°	145.6	17.3
20°-30°	174.7	20.8
30°-40°	185.1	22.0
40°-50°	155.4	18.5
50°-60°	60.3	7.2
60°-70°	33.2	4.0
70°-80°	18.7	2.2
80°-90°	4.9	0.6
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°	381.9	45.5
0°-40°	567.0	67.5
0°-60°	782.7	93.2
0°-90°	839.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	682	
5°	662	62
15°	519	146
25°	377	175
35°	296	185
45°	210	155
55°	59	60
65°	34	33
75°	17	19
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	682
2.5°	677
5°	662
7.5°	641
10°	609
12.5°	565
15°	519
17.5°	479
20°	443
22.5°	408
25°	377
27.5°	351
30°	331
32.5°	313
35°	296
37.5°	279
40°	261
42.5°	240
45°	210
47.5°	168
50°	124
52.5°	85
55°	59
57.5°	46
60°	40
62.5°	37
65°	34
67.5°	30
70°	26
72.5°	22
75°	17
77.5°	14
80°	10
82.5°	7
85°	4
87.5°	2
90°	0

(END OF REPORT)