

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: P20225

Luminaire Tested: **ML709830ICAT120D-492PS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20225
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709830ICAT120D-492PS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH ALUMINUM SHOWER TRIM AND GLASS LENS WITH MODULE
Light Source: (1) 14 WATT LED
LED 14 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 537 (84 lamps)
Luminaire Lumens: 538.4 lumens
Efficiency: 1.2%
Efficacy: 38.5 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

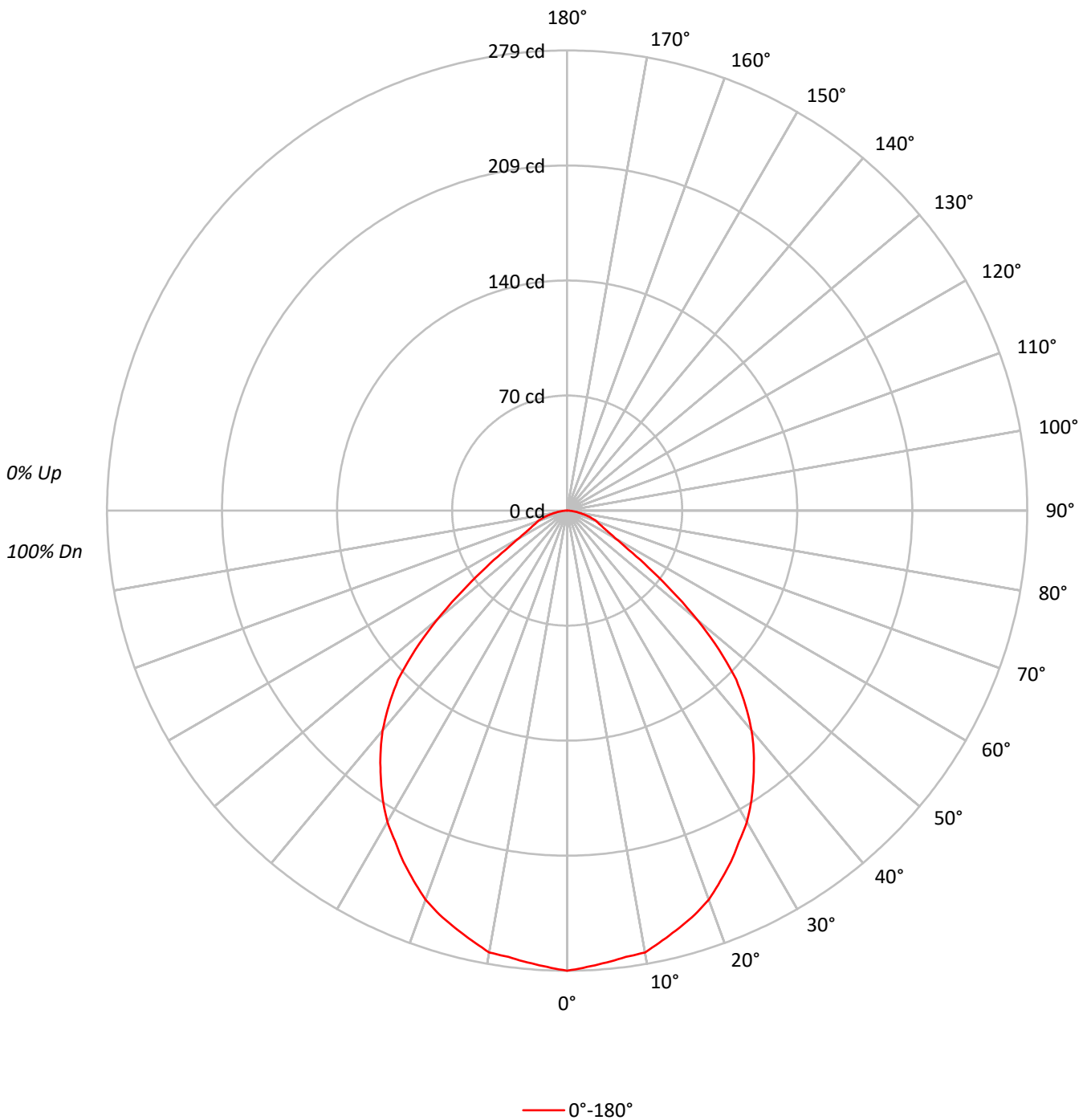
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	20		
RCR																				
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0
9	1	1	1	0	1	1	1	0	1	1	0	1	0	0	1	0	0	1	0	0
10	1	1	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15295
5°	15133
10°	15141
15°	14870
20°	14643
25°	14215
30°	13800
35°	13184
40°	12452
45°	11241
50°	8784
55°	5735
60°	3728
65°	3113
70°	3045
75°	2754
80°	2210
85°	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.2	4.9	0.1
10°-20°	73.9	13.7	0.2
20°-30°	108.1	20.1	0.2
30°-40°	123.1	22.9	0.3
40°-50°	109.3	20.3	0.2
50°-60°	56.0	10.4	0.1
60°-70°	24.6	4.6	0.1
70°-80°	13.7	2.5	0.0
80°-90°	3.4	0.6	0.0
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°	208.2	38.7	0.5
0°-40°	331.3	61.5	0.7
0°-60°	496.6	92.3	1.1
0°-90°	538.4	100.0	1.2
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°	538.4	100.0	1.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	279	
5°	275	26
15°	262	74
25°	235	108
35°	197	123
45°	145	109
55°	60	56
65°	24	25
75°	13	14
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	279
2.5°	277
5°	275
7.5°	273
10°	272
12.5°	267
15°	262
17.5°	257
20°	251
22.5°	243
25°	235
27.5°	226
30°	218
32.5°	208
35°	197
37.5°	186
40°	174
42.5°	160
45°	145
47.5°	125
50°	103
52.5°	80
55°	60
57.5°	44
60°	34
62.5°	28
65°	24
67.5°	21
70°	19
72.5°	16
75°	13
77.5°	10
80°	7
82.5°	5
85°	3
87.5°	1
90°	0

(END OF REPORT)