

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: P20268

Luminaire Tested: **ML709840ICAT120D-494H06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20268
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709840ICAT120D-494H06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH HAZE FINISH TRIM
REFLECTOR
Light Source: HIGH OUTPUT LED
LED 14 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 887 (1 lamp)
Luminaire Lumens: 888.5 lumens
Efficiency: 100.2%
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.34
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

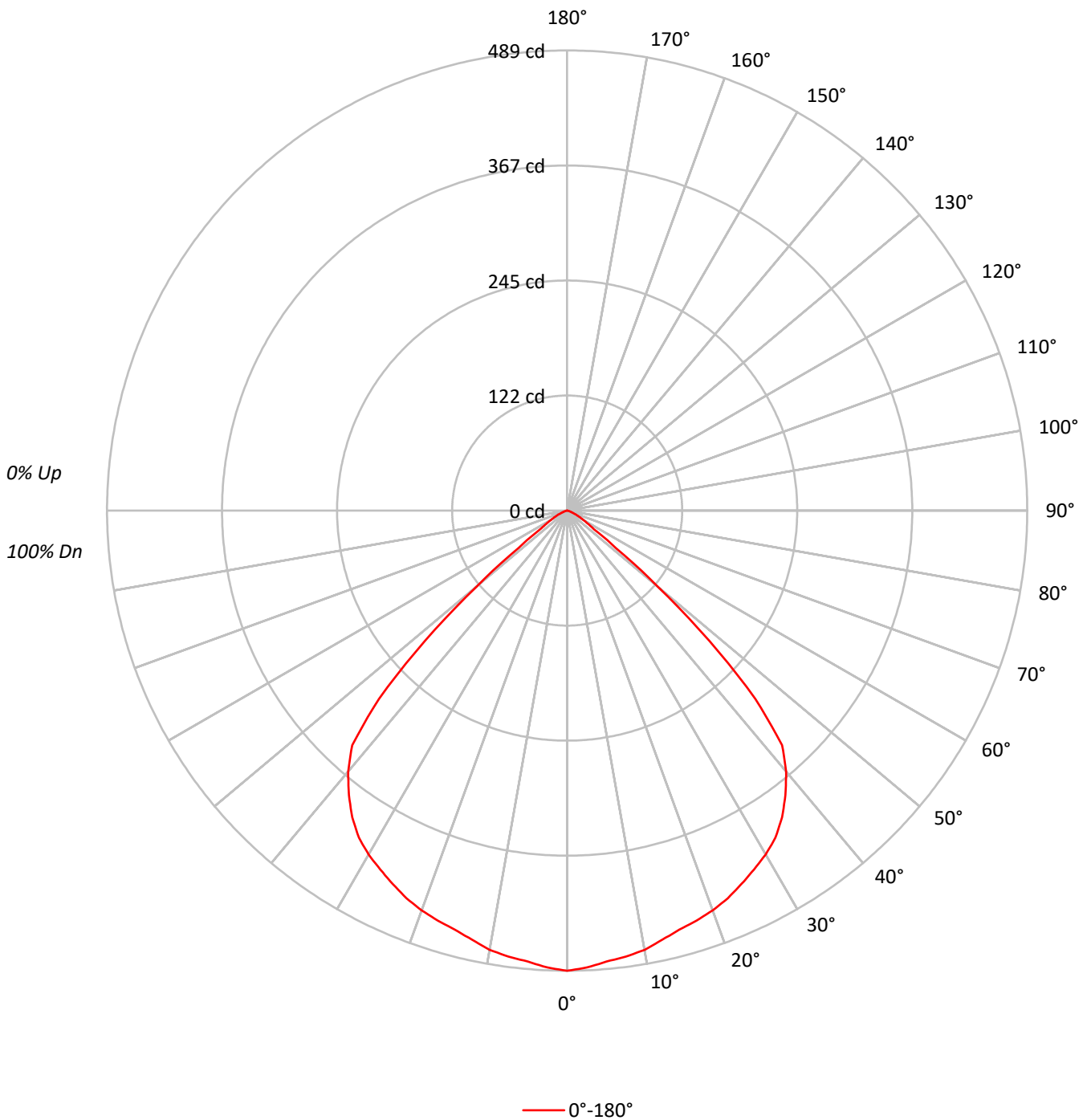
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	62	72	66	62	71	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	38	61	50	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26807
5°	26469
10°	26386
15°	26164
20°	26369
25°	26493
30°	26713
35°	26635
40°	25906
45°	21940
50°	10746
55°	3345
60°	2193
65°	1427
70°	801
75°	424
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	45.7	5.1	5.2
10°-20°	130.7	14.7	14.7
20°-30°	202.2	22.8	22.8
30°-40°	247.9	27.9	27.9
40°-50°	204.6	23.0	23.1
50°-60°	43.8	4.9	4.9
60°-70°	11.2	1.3	1.3
70°-80°	2.4	0.3	0.3
80°-90°	0.1	0.0	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°	378.6	42.6	42.7
0°-40°	626.5	70.5	70.6
0°-60°	874.8	98.5	98.6
0°-90°	888.5	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°	888.5	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	489	
5°	481	46
15°	461	131
25°	438	202
35°	398	248
45°	283	205
55°	35	44
65°	11	11
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	489
2.5°	486
5°	481
7.5°	478
10°	474
12.5°	467
15°	461
17.5°	457
20°	452
22.5°	446
25°	438
27.5°	430
30°	422
32.5°	412
35°	398
37.5°	381
40°	362
42.5°	338
45°	283
47.5°	205
50°	126
52.5°	65
55°	35
57.5°	26
60°	20
62.5°	15
65°	11
67.5°	7
70°	5
72.5°	3
75°	2
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)