

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: P20264

Luminaire Tested: **ML709840ICAT120D -493HS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20264
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709840ICAT120D -493HS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH HAZE 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: 802 (1 lamp)
Luminaire Lumens: 802.9 lumens
Efficiency: 100.1%
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.95
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

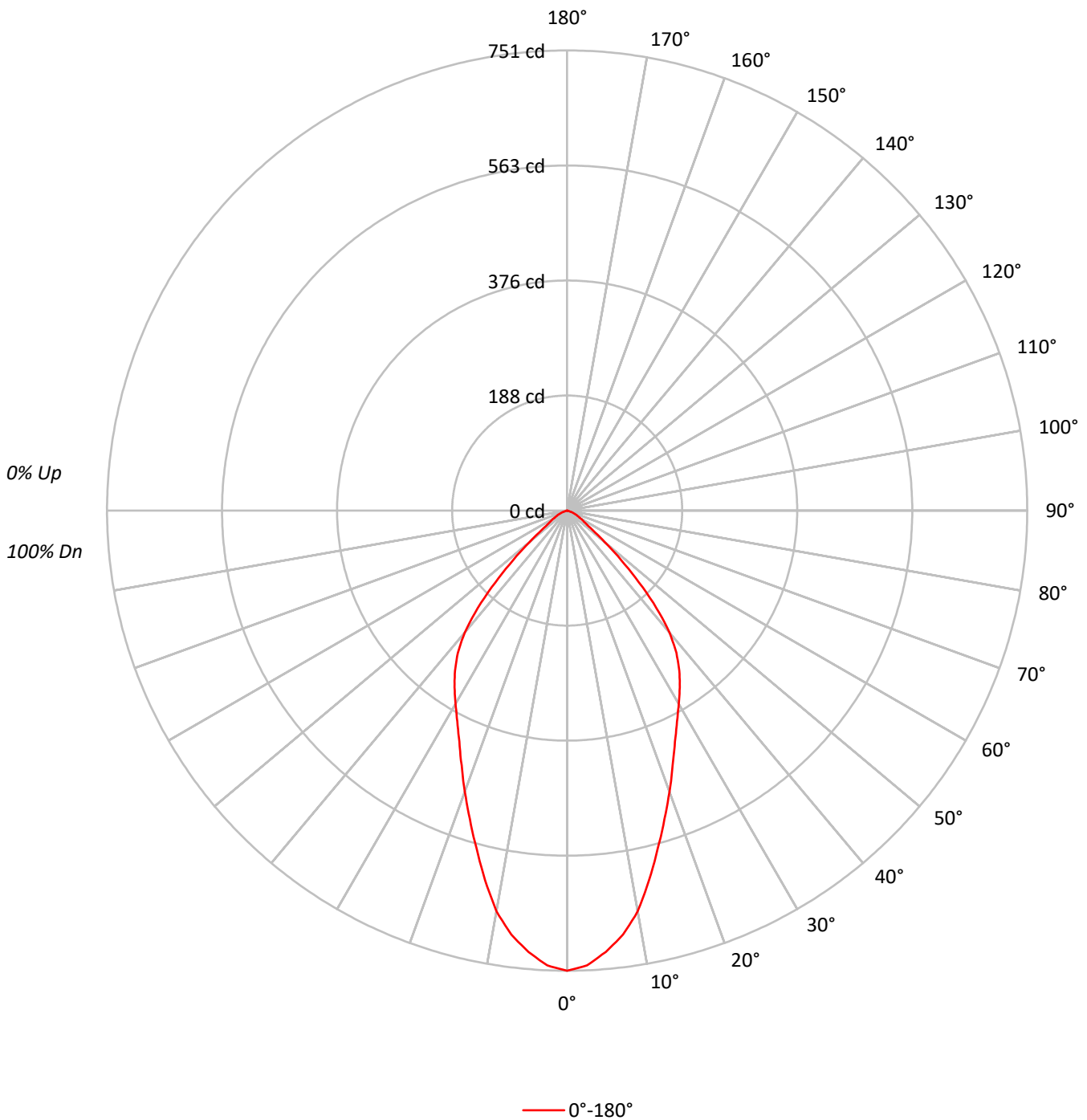
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		107	107	107		102	102	102	100
1	113	110	107	104	110	107	105	103	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	78	73	81	76	72		79	75	71		77	73	70	69
5	88	78	71	66	86	77	71	66	75	70	65		73	69	65		72	68	64	63
6	83	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	55		63	58	54	53
8	73	62	56	51	72	62	55	51	61	55	51		60	54	50		59	54	50	49
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	48	44		52	47	43		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41170
5°	39786
10°	36962
15°	32407
20°	28469
25°	25163
30°	23042
35°	21348
40°	18606
45°	12870
50°	6823
55°	3632
60°	2631
65°	2075
70°	1282
75°	424
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	67.2	8.4	8.4
10°-20°	159.9	19.9	19.9
20°-30°	192.7	24.0	24.0
30°-40°	197.6	24.6	24.6
40°-50°	128.0	15.9	16.0
50°-60°	38.4	4.8	4.8
60°-70°	15.8	2.0	2.0
70°-80°	3.3	0.4	0.4
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°	419.9	52.3	52.4
0°-40°	617.5	76.9	77.0
0°-60°	783.8	97.6	97.7
0°-90°	802.9	100.0	100.1
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°	802.9	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	751	
5°	723	67
15°	571	160
25°	416	193
35°	319	198
45°	166	128
55°	38	38
65°	16	16
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	751
2.5°	743
5°	723
7.5°	698
10°	664
12.5°	618
15°	571
17.5°	528
20°	488
22.5°	450
25°	416
27.5°	388
30°	364
32.5°	342
35°	319
37.5°	293
40°	260
42.5°	216
45°	166
47.5°	119
50°	80
52.5°	53
55°	38
57.5°	30
60°	24
62.5°	20
65°	16
67.5°	12
70°	8
72.5°	5
75°	2
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)