

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: P20241

Luminaire Tested: **ML709827ICAT120D-493SNS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20241
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709827ICAT120D-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
LED 14 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

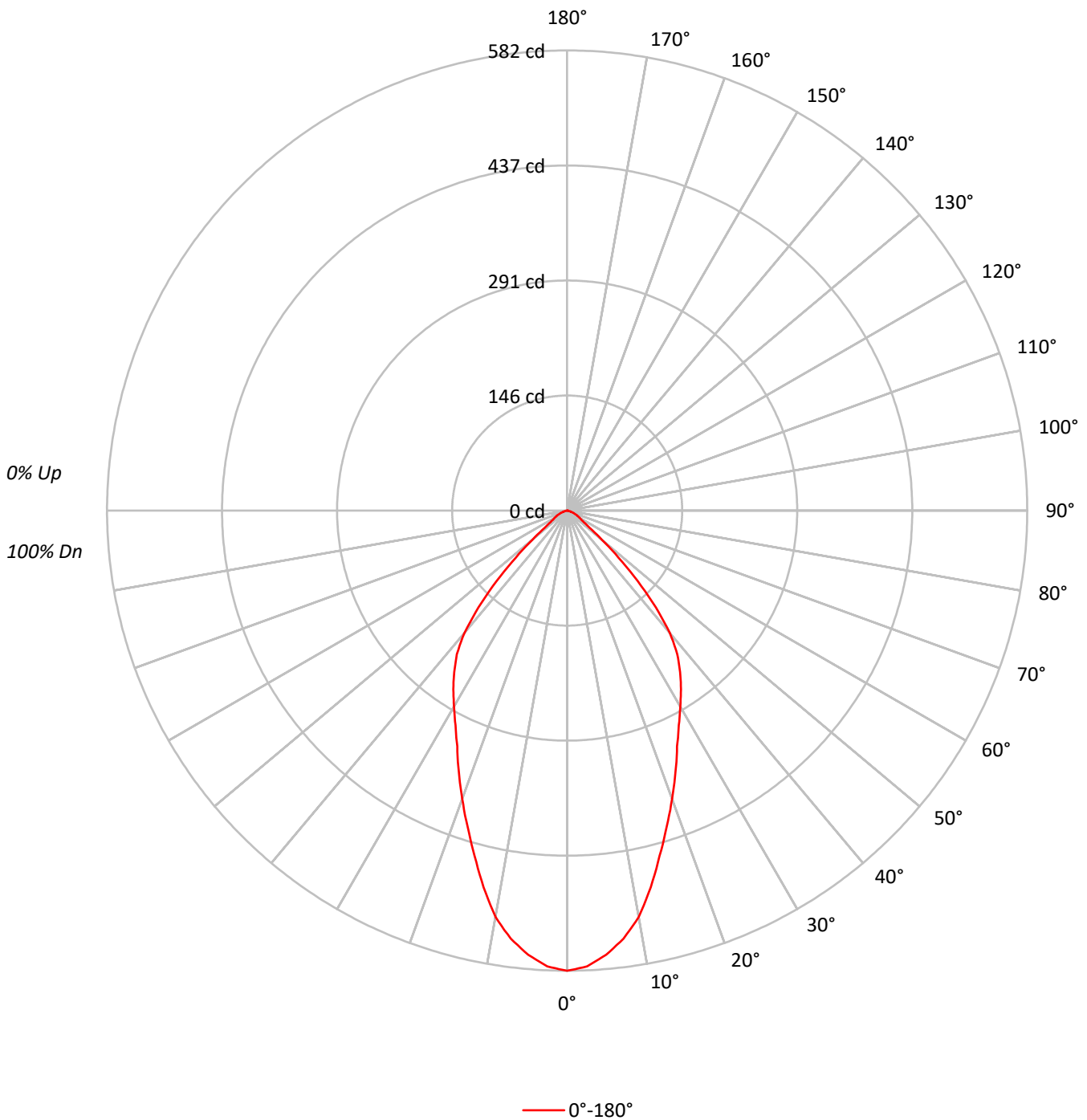
Lumens per Lamp: 626 (1 lamp)
Luminaire Lumens: 627.0 lumens
Efficiency: 100.2%
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14.3
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	79	83	80	77	76
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	70	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63
6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31905
5°	31037
10°	29058
15°	25653
20°	22635
25°	19900
30°	18104
35°	16664
40°	14456
45°	9768
50°	4861
55°	2485
60°	1974
65°	1686
70°	1282
75°	847
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	52.5	8.4	8.4
10°-20°	126.6	20.2	20.2
20°-30°	152.5	24.3	24.4
30°-40°	154.5	24.6	24.7
40°-50°	97.1	15.5	15.5
50°-60°	26.7	4.3	4.3
60°-70°	12.6	2.0	2.0
70°-80°	4.1	0.6	0.7
80°-90°	0.4	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°	331.6	52.9	53.0
0°-40°	486.1	77.5	77.7
0°-60°	609.9	97.3	97.4
0°-90°	627.0	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°	627.0	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	582	
5°	564	53
15°	452	127
25°	329	153
35°	249	154
45°	126	97
55°	26	27
65°	13	13
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	582
2.5°	577
5°	564
7.5°	546
10°	522
12.5°	488
15°	452
17.5°	419
20°	388
22.5°	358
25°	329
27.5°	306
30°	286
32.5°	268
35°	249
37.5°	229
40°	202
42.5°	166
45°	126
47.5°	88
50°	57
52.5°	36
55°	26
57.5°	21
60°	18
62.5°	15
65°	13
67.5°	10
70°	8
72.5°	5
75°	4
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)