

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: P85545

Luminaire Tested: **ML709840ICAT120D-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P85545
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P21271)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709840ICAT120D-493PS06-H750ICAT
Description: HALO 6 INCH LED DOWNLIGHT WITH 900 Lmn MODULE, SOLITE LENS AND WHITE REFLECTOR---ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING A 500 WATT, NIST TRACEABLE, OMNI-DIRECTIONAL LAB LUMEN STANDARD IN THE GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET---
Light Source: (1)SMT LED 4000K
(1)CL-L241-C26L2-A 14.3 WATTS
Ballast/Driver: (1)ELECTRONIC DRIVER
(1)RHPS311BL-CLO

Summary

Lumens per Lamp: 777 (1 lamp)
Luminaire Lumens: 777.5 lumens
Efficiency: 100.1%
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

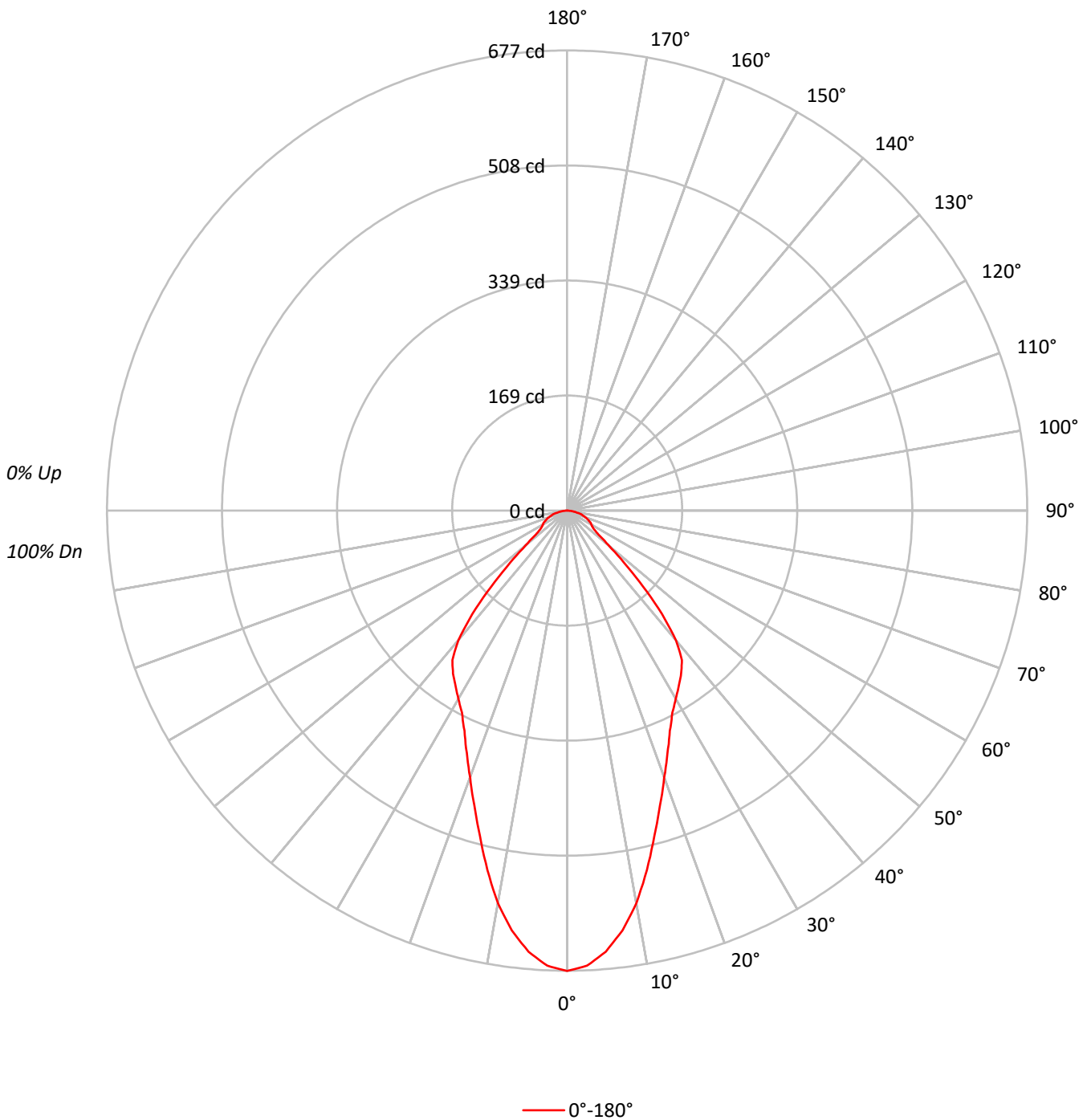
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): 0.12072
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	56	65	59	55	63	58	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40429
5°	38144
10°	33958
15°	28591
20°	24193
25°	20950
30°	19110
35°	17977
40°	15865
45°	10544
50°	5579
55°	3651
60°	3376
65°	3185
70°	2855
75°	2455
80°	1618
85°	594



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	60.1	7.7	7.7
10°-20°	138.8	17.9	17.9
20°-30°	166.1	21.4	21.4
30°-40°	181.4	23.3	23.3
40°-50°	122.4	15.7	15.8
50°-60°	46.8	6.0	6.0
60°-70°	34.9	4.5	4.5
70°-80°	21.8	2.8	2.8
80°-90°	5.1	0.7	0.7
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°	365.0	47.0	47.0
0°-40°	546.4	70.3	70.3
0°-60°	715.7	92.0	92.1
0°-90°	777.5	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°	777.5	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	677	
5°	651	60
15°	496	139
25°	358	166
35°	293	181
45°	158	122
55°	48	47
65°	35	35
75°	21	22
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	677.3
2.5°	670.2
5°	651.4
7.5°	623.0
10°	586.5
12.5°	541.6
15°	495.6
17.5°	454.3
20°	417.7
22.5°	385.9
25°	357.5
27.5°	335.1
30°	319.8
32.5°	305.6
35°	292.6
37.5°	277.3
40°	249.0
42.5°	206.5
45°	158.1
47.5°	113.3
50°	79.1
52.5°	57.8
55°	48.4
57.5°	43.7
60°	41.3
62.5°	38.9
65°	35.4
67.5°	31.9
70°	28.3
72.5°	24.8
75°	21.2
77.5°	16.5
80°	11.8
82.5°	8.3
85°	3.5
87.5°	1.2
90°	0.0

(END OF REPORT)