

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: P85547

Luminaire Tested: **ML709835ICAT120D-493PS06-H750ICAT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P85547  
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: ML709835ICAT120D-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 3500K  
(1)CL-L241-C26L2-A 14.3 WATTS  
Ballast/Driver: (1)ELECTRONIC DRIVER  
(1)RHPS311BL-CLO

**Summary**

Lumens per Lamp: 774 (1 lamp)  
Luminaire Lumens: 774.2 lumens  
Efficiency: 100.0%  
Efficacy: 55.3 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

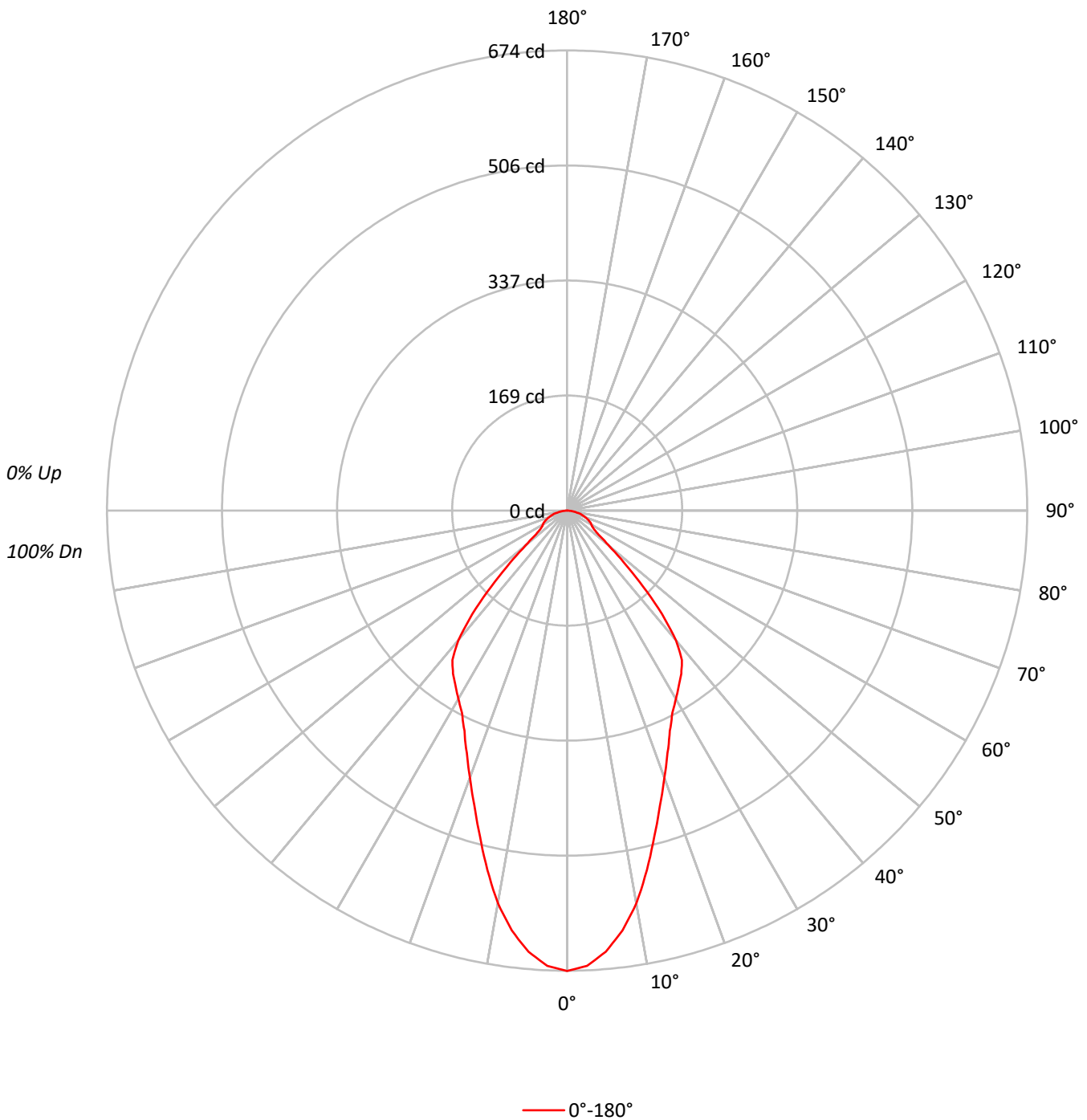
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.12072  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	89
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	48
8	71	59	52	47	69	58	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°	40255
5°	37980
10°	33813
15°	28469
20°	24095
25°	20862
30°	19027
35°	17903
40°	15795
45°	10504
50°	5551
55°	3636
60°	3360
65°	3167
70°	2845
75°	2455
80°	1618
85°	594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	59.9	7.7	7.7
10°-20°	138.2	17.9	17.9
20°-30°	165.4	21.4	21.4
30°-40°	180.6	23.3	23.3
40°-50°	121.9	15.7	15.7
50°-60°	46.6	6.0	6.0
60°-70°	34.7	4.5	4.5
70°-80°	21.7	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°	363.5	47.0	47.0
0°-40°	544.1	70.3	70.3
0°-60°	712.6	92.0	92.1
0°-90°	774.2	100.0	100.0
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°	774.2	100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	674	
5°	649	60
15°	494	138
25°	356	165
35°	291	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°	674.4
2.5°	667.4
5°	648.6
7.5°	620.4
10°	584.0
12.5°	539.3
15°	493.5
17.5°	452.4
20°	416.0
22.5°	384.2
25°	356.0
27.5°	333.7
30°	318.4
32.5°	304.3
35°	291.4
37.5°	276.1
40°	247.9
42.5°	205.6
45°	157.5
47.5°	112.8
50°	78.7
52.5°	57.6
55°	48.2
57.5°	43.5
60°	41.1
62.5°	38.8
65°	35.2
67.5°	31.7
70°	28.2
72.5°	24.7
75°	21.2
77.5°	16.4
80°	11.8
82.5°	8.2
85°	3.5
87.5°	1.2
90°	0.0

(END OF REPORT)