

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: P85565

Luminaire Tested: **ML712840TUNVD010-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P85565
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712840TUNVD010-493PS06-H750ICAT
Description: HALO 6 INCH LED DOWNLIGHT WITH 1200 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
CL-L241-C26L2-A
Ballast/Driver: (1)ELECTRONIC DRIVER
RHPS314D-CLO

Summary

Lumens per Lamp: 1416 (1 lamp)
Luminaire Lumens: 1409.6 lumens
Efficiency: 99.5%
Efficacy: 58.0 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

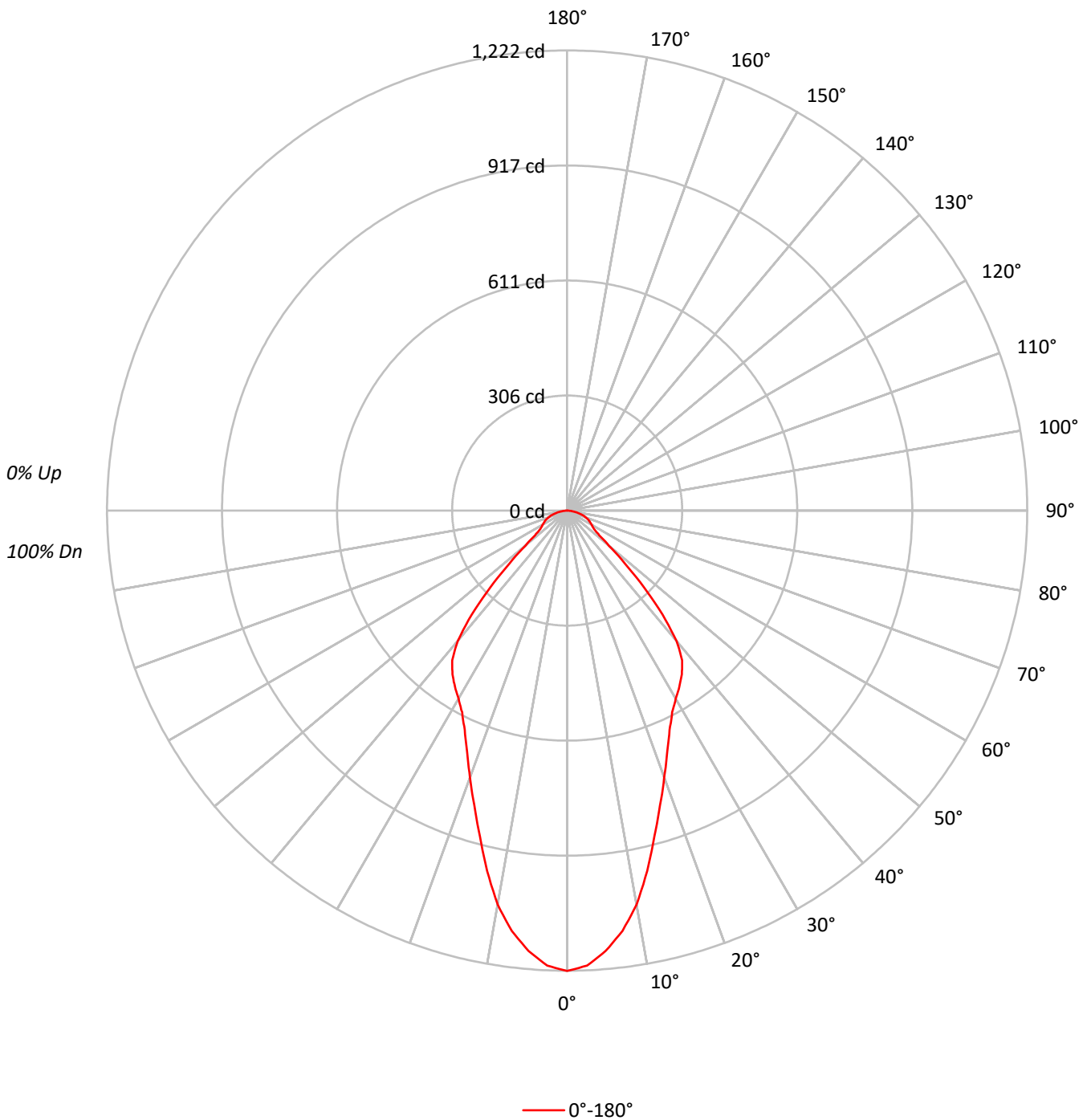
Input Watts (W): 24.3
Input Voltage (V): NR
Input Current (Ain): 0.2034
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 6 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	100	101	99	97		97	95	94		94	92	91	89
2	104	97	92	88	101	95	91	87	92	88	85		89	86	83		86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	81	74	69	88	80	73	68	77	72	67		75	70	66		73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68	63	60	58
6	79	68	61	56	78	67	61	56	66	60	55		64	59	55		63	58	54	53
7	74	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	42	41
10	63	51	44	40	61	51	44	40	50	44	40		49	43	40		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72972
5°	68752
10°	61488
15°	51666
20°	43672
25°	37686
30°	34480
35°	32623
40°	28793
45°	19201
50°	10234
55°	6676
60°	6172
65°	5839
70°	5236
75°	4504
80°	3071
85°	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.6	7.7	7.7
10°-20°	250.9	17.8	17.7
20°-30°	299.2	21.2	21.1
30°-40°	328.6	23.3	23.2
40°-50°	223.0	15.8	15.8
50°-60°	86.1	6.1	6.1
60°-70°	63.7	4.5	4.5
70°-80°	40.3	2.9	2.8
80°-90°	9.2	0.6	0.6
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°	658.7	46.7	46.5
0°-40°	987.3	70.0	69.7
0°-60°	1296.4	92.0	91.6
0°-90°	1409.6	100.0	99.5
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°	1409.6	100.0	99.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	1222	
5°	1174	109
15°	896	251
25°	643	299
35°	531	329
45°	288	223
55°	88	86
65°	65	64
75°	39	40
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1222.5
2.5°	1209.5
5°	1174.1
7.5°	1125.7
10°	1062.0
12.5°	980.6
15°	895.6
17.5°	820.1
20°	754.0
22.5°	693.8
25°	643.1
27.5°	604.2
30°	577.0
32.5°	554.6
35°	531.0
37.5°	501.5
40°	451.9
42.5°	375.2
45°	287.9
47.5°	207.7
50°	145.1
52.5°	107.4
55°	88.5
57.5°	80.2
60°	75.5
62.5°	69.6
65°	64.9
67.5°	59.0
70°	51.9
72.5°	46.0
75°	38.9
77.5°	30.7
80°	22.4
82.5°	14.2
85°	7.1
87.5°	1.2
90°	0.0

(END OF REPORT)