

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: P85564

Luminaire Tested: **ML712835TUNVD010-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P85564
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712835TUNVD010-493PS06-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 3500K
CL-L241-C26L2-A
Ballast/Driver: (1)ELECTRONIC DRIVER
RHPS314D-CLO

Summary

Lumens per Lamp: 1404 (1 lamp)
Luminaire Lumens: 1403.6 lumens
Efficiency: 100.0%
Efficacy: 57.8 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

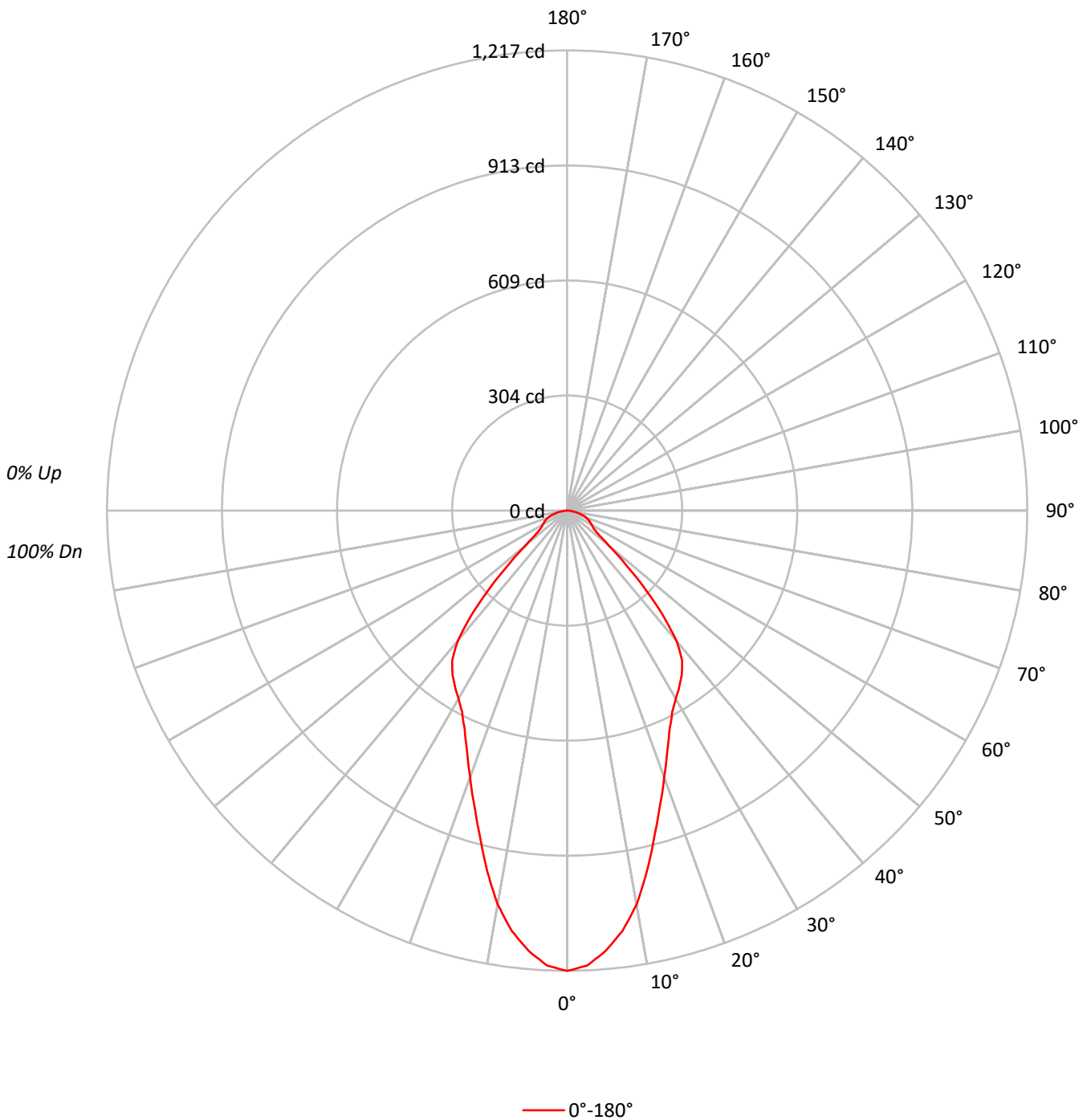
Input Watts (W): 24.3
Input Voltage (V): NR
Input Current (Ain): 0.2034
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 6 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	92	88	102	96	91	87	93	89	85		89	86	83		87	84	81	80
3	97	89	82	77	95	87	81	77	85	80	75		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	68		75	71	67		73	69	66	64
5	85	74	67	62	83	73	67	62	72	66	61		70	64	60		68	63	60	58
6	80	69	61	56	78	68	61	56	66	60	55		65	59	55		63	58	55	53
7	75	64	56	51	73	63	56	51	61	55	51		60	54	50		59	54	50	48
8	70	59	52	47	69	58	52	47	57	51	47		56	50	46		55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40		49	44	40		48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72661
5°	68459
10°	61228
15°	51447
20°	43486
25°	37528
30°	34337
35°	32488
40°	28672
45°	19121
50°	10191
55°	6646
60°	6148
65°	5812
70°	5215
75°	4493
80°	3058
85°	1187



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.1	7.7	7.7
10°-20°	249.8	17.8	17.8
20°-30°	298.0	21.2	21.2
30°-40°	327.2	23.3	23.3
40°-50°	222.1	15.8	15.8
50°-60°	85.7	6.1	6.1
60°-70°	63.4	4.5	4.5
70°-80°	40.1	2.9	2.9
80°-90°	9.1	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°	655.9	46.7	46.7
0°-40°	983.1	70.0	70.0
0°-60°	1291.0	92.0	92.0
0°-90°	1403.6	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°	1403.6	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1217	
5°	1169	108
15°	892	250
25°	640	298
35°	529	327
45°	287	222
55°	88	86
65°	65	63
75°	39	40
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1217.3
2.5°	1204.4
5°	1169.1
7.5°	1121.0
10°	1057.5
12.5°	976.4
15°	891.8
17.5°	816.6
20°	750.8
22.5°	690.9
25°	640.4
27.5°	601.6
30°	574.6
32.5°	552.2
35°	528.8
37.5°	499.4
40°	450.0
42.5°	373.7
45°	286.7
47.5°	206.8
50°	144.5
52.5°	106.9
55°	88.1
57.5°	79.9
60°	75.2
62.5°	69.3
65°	64.6
67.5°	58.8
70°	51.7
72.5°	45.8
75°	38.8
77.5°	30.6
80°	22.3
82.5°	14.1
85°	7.0
87.5°	1.2
90°	0.0

(END OF REPORT)