

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: P21277

Luminaire Tested: **ML712827TUNVD010-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P21277
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010-493PS06-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 2700K
CL-L241-C26L2-A
Ballast/Driver: (1)ELECTRONIC DRIVER
RHPS314D-CLO

Summary

Lumens per Lamp: 1193 (1 lamp)
Luminaire Lumens: 1194.6 lumens
Efficiency: 100.1%
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

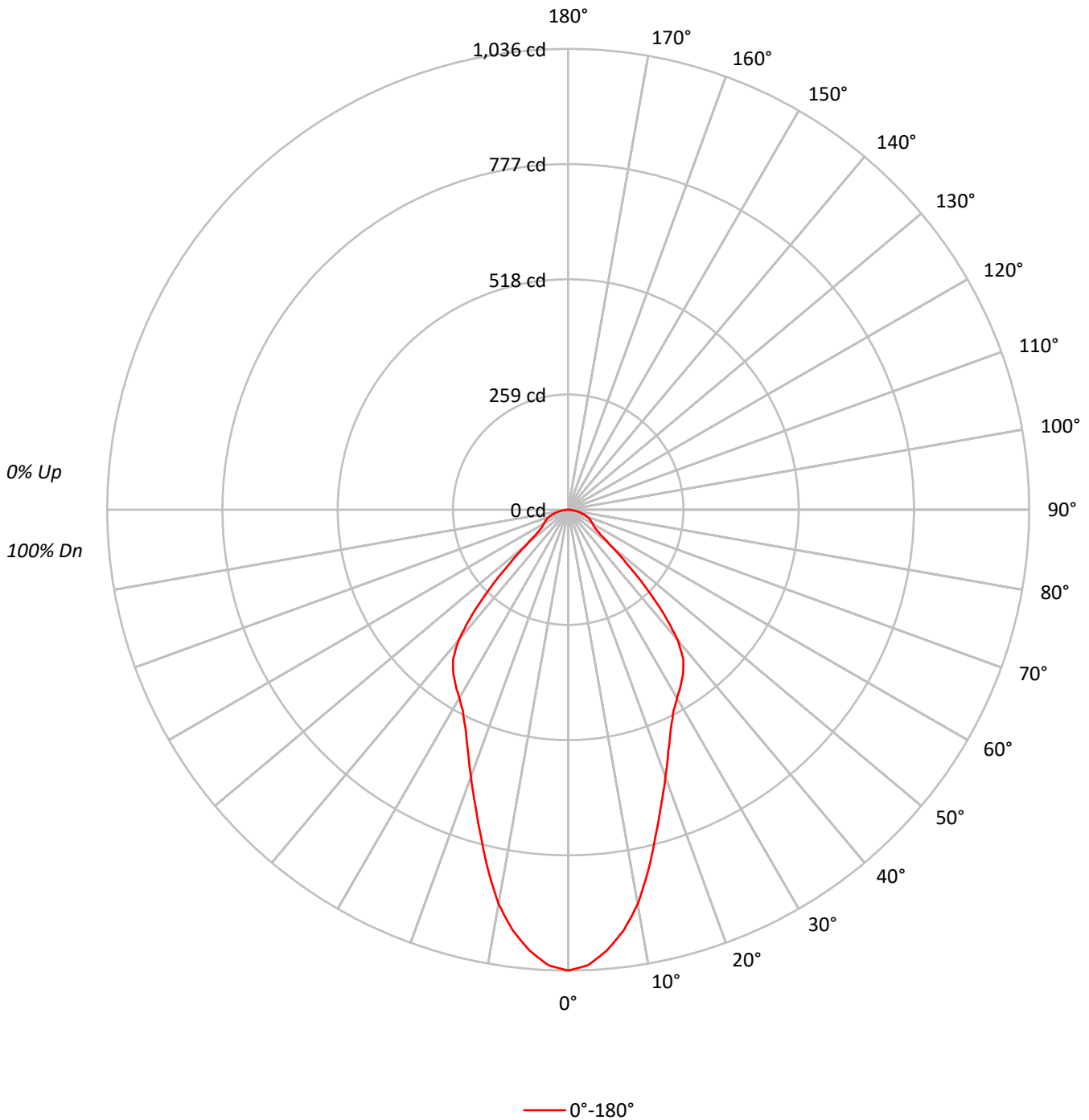
Input Watts (W): 24.3
Input Voltage (V): NR
Input Current (Ain): 0.2034
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 6 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	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	60	68	64	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	55	50	59	54	50	48
8	71	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	45
9	67	55	48	43	65	55	48	43	53	47	43	53	47	43	52	46	43	41
10	63	52	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61840
5°	59619
10°	54550
15°	46903
20°	40590
25°	35894
30°	33704
35°	32791
40°	29844
45°	20597
50°	11422
55°	7805
60°	7640
65°	7768
70°	7679
75°	7611
80°	6531
85°	4109



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	92.0	7.7	7.7
10°-20°	212.6	17.8	17.8
20°-30°	253.6	21.2	21.3
30°-40°	278.5	23.3	23.3
40°-50°	189.0	15.8	15.8
50°-60°	73.0	6.1	6.1
60°-70°	54.0	4.5	4.5
70°-80°	34.2	2.9	2.9
80°-90°	7.7	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°	558.2	46.7	46.8
0°-40°	836.7	70.0	70.1
0°-60°	1098.7	92.0	92.1
0°-90°	1194.6	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°	1194.6	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1036	
5°	995	92
15°	759	213
25°	545	254
35°	450	278
45°	244	189
55°	75	73
65°	55	54
75°	33	34
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1036
2.5°	1025
5°	995
7.5°	954
10°	900
12.5°	831
15°	759
17.5°	695
20°	639
22.5°	588
25°	545
27.5°	512
30°	489
32.5°	470
35°	450
37.5°	425
40°	383
42.5°	318
45°	244
47.5°	176
50°	123
52.5°	91
55°	75
57.5°	68
60°	64
62.5°	59
65°	55
67.5°	50
70°	44
72.5°	39
75°	33
77.5°	26
80°	19
82.5°	12
85°	6
87.5°	1
90°	0

(END OF REPORT)