

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: P85563

Luminaire Tested: **ML712830TUNVD010-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P85563
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712830TUNVD010-493PS06-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 3000K
CL-L241-C26L2-A
Ballast/Driver: (1)ELECTRONIC DRIVER
RHPS314D-CLO

Summary

Lumens per Lamp: 1282 (1 lamp)
Luminaire Lumens: 1290.1 lumens
Efficiency: 100.6%
Efficacy: 53.1 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

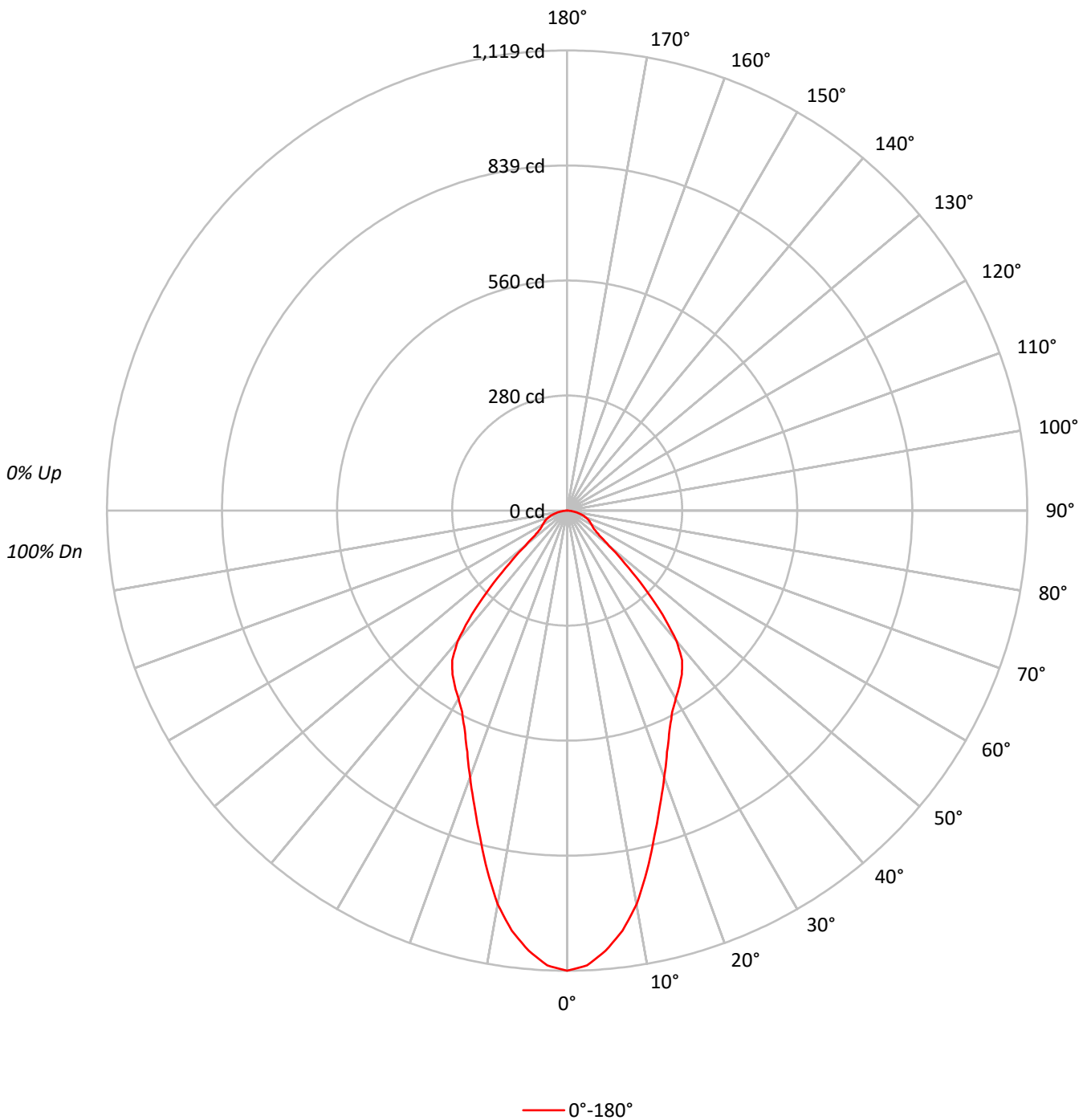
Input Watts (W): 24.3
Input Voltage (V): NR
Input Current (Ain): 0.2034
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 6 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101
1	112	109	105	102	110	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	84	82	80
3	98	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	73	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	84	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	56	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	57	51	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	66	55	48	43	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66788
5°	62926
10°	56278
15°	47288
20°	39970
25°	34492
30°	31558
35°	29859
40°	26352
45°	17574
50°	9366
55°	6111
60°	5649
65°	5344
70°	4792
75°	4122
80°	2811
85°	1103



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	99.4	7.7	7.8
10°-20°	229.6	17.8	17.9
20°-30°	273.9	21.2	21.4
30°-40°	300.8	23.3	23.5
40°-50°	204.1	15.8	15.9
50°-60°	78.8	6.1	6.1
60°-70°	58.3	4.5	4.5
70°-80°	36.9	2.9	2.9
80°-90°	8.4	0.6	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°	602.9	46.7	47.0
0°-40°	903.6	70.0	70.5
0°-60°	1186.6	92.0	92.6
0°-90°	1290.1	100.0	100.6
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°	1290.1	100.0	100.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	1119	
5°	1075	99
15°	820	230
25°	589	274
35°	486	301
45°	264	204
55°	81	79
65°	59	58
75°	36	37
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1118.9
2.5°	1107.0
5°	1074.6
7.5°	1030.3
10°	972.0
12.5°	897.5
15°	819.7
17.5°	750.6
20°	690.1
22.5°	635.0
25°	588.6
27.5°	553.0
30°	528.1
32.5°	507.6
35°	486.0
37.5°	459.0
40°	413.6
42.5°	343.4
45°	263.5
47.5°	190.1
50°	132.8
52.5°	98.3
55°	81.0
57.5°	73.4
60°	69.1
62.5°	63.7
65°	59.4
67.5°	54.0
70°	47.5
72.5°	42.1
75°	35.6
77.5°	28.1
80°	20.5
82.5°	13.0
85°	6.5
87.5°	1.1
90°	0.0

(END OF REPORT)