

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: P20127

Luminaire Tested: **ML712830TUNVD010-493SNS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20127
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712830TUNVD010-493SNS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SATIN NICKEL FINISH LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR, AND SOLITE GLASS LENS WITH MODULE ML712830TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1124 (1 lamp)
Luminaire Lumens: 1125.3 lumens
Efficiency: 100.1%
Efficacy: 1.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

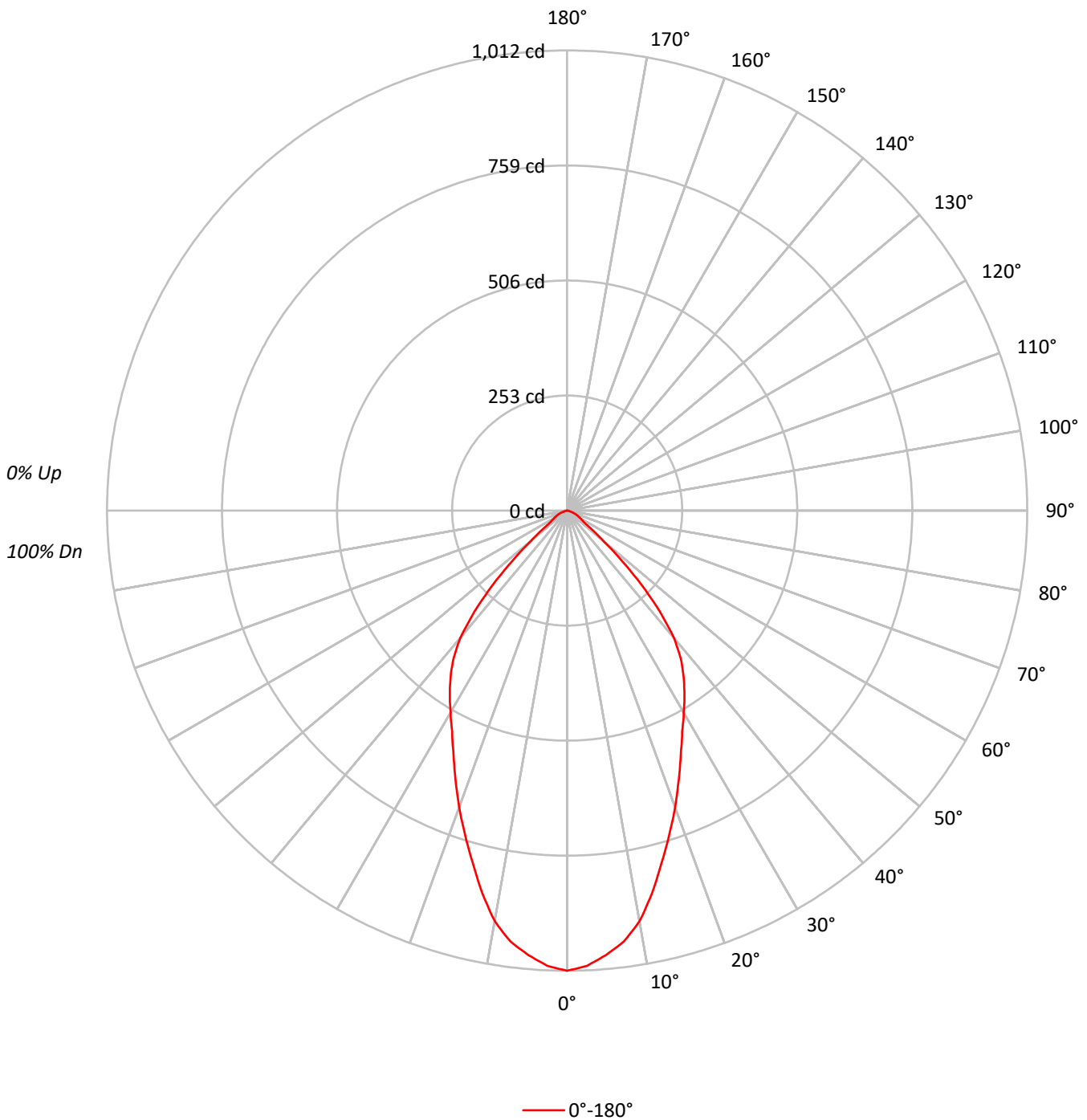
Input Watts (W): 999
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		107	107	107		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80		85	81	78		83	80	77	75
4	93	85	78	73	91	83	77	73	81	76	72		79	75	71		77	73	70	68
5	88	78	71	66	86	77	71	66	75	70	65		73	69	65		72	68	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	55	76	66	60	55	65	59	55		64	58	54		62	58	54	53
8	73	62	56	51	72	62	55	51	61	55	51		59	54	50		58	54	50	48
9	69	58	52	47	68	58	51	47	57	51	47		56	50	47		55	50	46	45
10	66	55	48	44	64	54	48	44	53	47	43		52	47	43		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55478
5°	53984
10°	51046
15°	45517
20°	40487
25°	35748
30°	32473
35°	29915
40°	26120
45°	17909
50°	9040
55°	4492
60°	3618
65°	2983
70°	2244
75°	1483
80°	631
85°	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	91.8	8.2	8.2
10°-20°	224.7	20.0	20.0
20°-30°	273.3	24.3	24.3
30°-40°	277.3	24.6	24.7
40°-50°	177.3	15.8	15.8
50°-60°	49.3	4.4	4.4
60°-70°	23.1	2.1	2.1
70°-80°	7.6	0.7	0.7
80°-90°	0.8	0.1	0.1
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°	589.8	52.4	52.5
0°-40°	867.1	77.1	77.1
0°-60°	1093.7	97.2	97.3
0°-90°	1125.3	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°	1125.3	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1012	
5°	981	92
15°	802	225
25°	591	273
35°	447	277
45°	231	177
55°	47	49
65°	23	23
75°	7	8
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1012
2.5°	1002
5°	981
7.5°	956
10°	917
12.5°	862
15°	802
17.5°	747
20°	694
22.5°	641
25°	591
27.5°	548
30°	513
32.5°	480
35°	447
37.5°	411
40°	365
42.5°	302
45°	231
47.5°	162
50°	106
52.5°	68
55°	47
57.5°	38
60°	33
62.5°	28
65°	23
67.5°	19
70°	14
72.5°	10
75°	7
77.5°	4
80°	2
82.5°	1
85°	1
87.5°	0
90°	0

(END OF REPORT)