

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: P20149

Luminaire Tested: **ML712835TUNVD010-493SNS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20149
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712835TUNVD010-493SNS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SATIN NICKEL FINISH LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND SOLITE GLASS LENS WITH MODULE ML712835TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1170 (1 lamp)
Luminaire Lumens: 1171.0 lumens
Efficiency: 100.1%
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.98
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

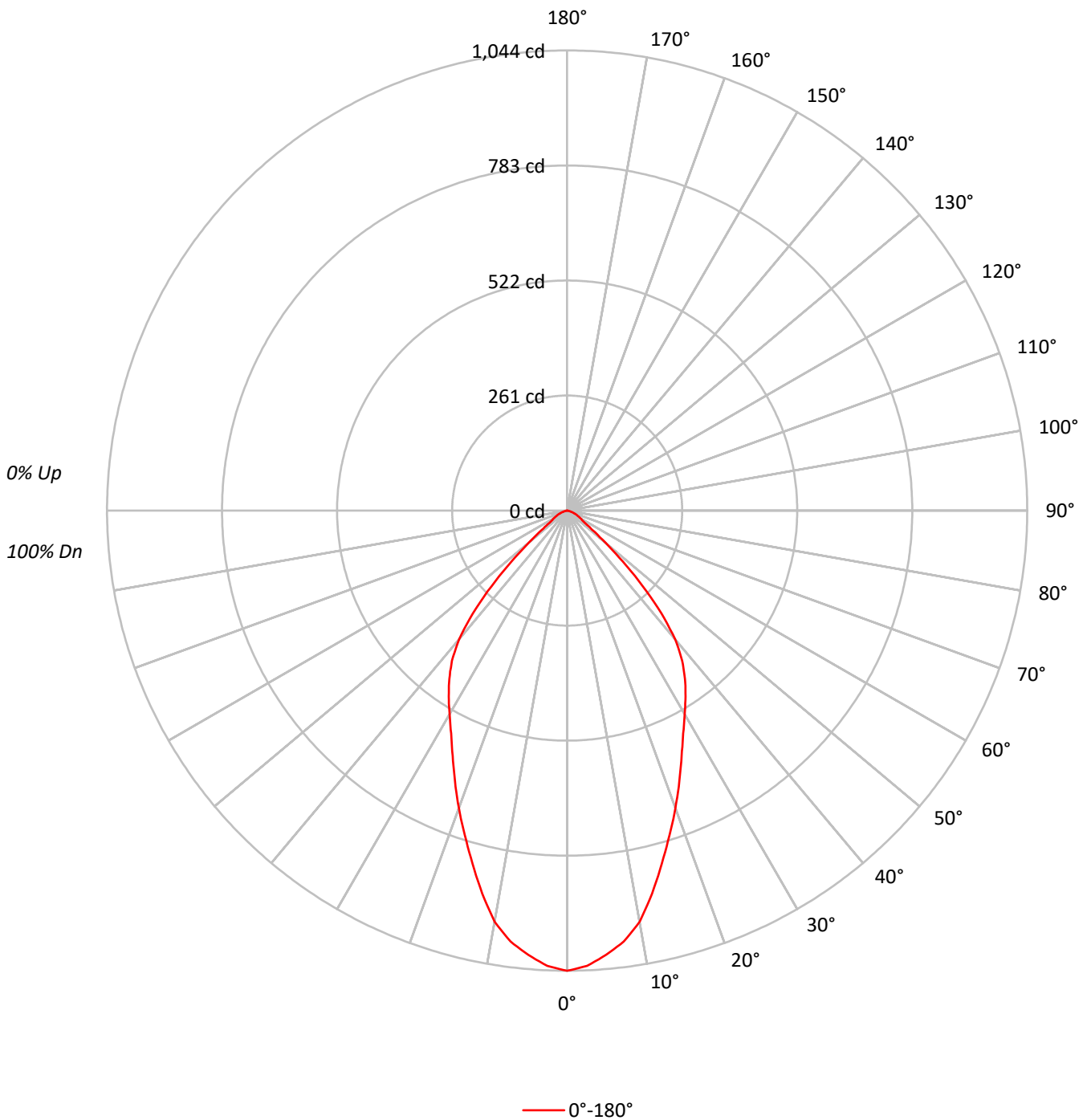
Input Watts (W): 26.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		106	106	106		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	95	92	104	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	73	81	76	72		79	74	71		77	73	70	68
5	88	78	71	66	86	77	71	66	75	69	65		73	68	65		72	67	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		63	58	54		62	58	54	52
8	73	62	55	51	72	62	55	51	60	55	50		59	54	50		58	53	50	48
9	69	58	51	47	68	58	51	47	57	51	47		56	50	46		55	50	46	45
10	65	54	48	44	64	54	48	43	53	47	43		52	47	43		51	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57232
5°	55690
10°	52716
15°	47049
20°	41887
25°	37139
30°	33739
35°	31186
40°	27265
45°	18839
50°	9552
55°	4779
60°	3837
65°	3113
70°	2404
75°	1483
80°	947
85°	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	94.7	8.1	8.1
10°-20°	232.2	19.8	19.8
20°-30°	283.8	24.2	24.3
30°-40°	289.0	24.7	24.7
40°-50°	186.3	15.9	15.9
50°-60°	52.2	4.5	4.5
60°-70°	23.9	2.0	2.0
70°-80°	7.9	0.7	0.7
80°-90°	1.0	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°	610.7	52.1	52.2
0°-40°	899.7	76.8	76.9
0°-60°	1138.2	97.2	97.3
0°-90°	1171.0	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°	1171.0	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1044	
5°	1012	95
15°	829	232
25°	614	284
35°	466	289
45°	243	186
55°	50	52
65°	24	24
75°	7	8
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1044
2.5°	1034
5°	1012
7.5°	986
10°	947
12.5°	890
15°	829
17.5°	772
20°	718
22.5°	665
25°	614
27.5°	570
30°	533
32.5°	500
35°	466
37.5°	429
40°	381
42.5°	317
45°	243
47.5°	171
50°	112
52.5°	72
55°	50
57.5°	40
60°	35
62.5°	29
65°	24
67.5°	19
70°	15
72.5°	10
75°	7
77.5°	4
80°	3
82.5°	1
85°	1
87.5°	0
90°	0

(END OF REPORT)