

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: P20153

Luminaire Tested: **ML712835TUNVD010-494WB06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20153
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712835TUNVD010-494WB06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN TRIM
REFLECTOR WITH MODULE ML712835TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

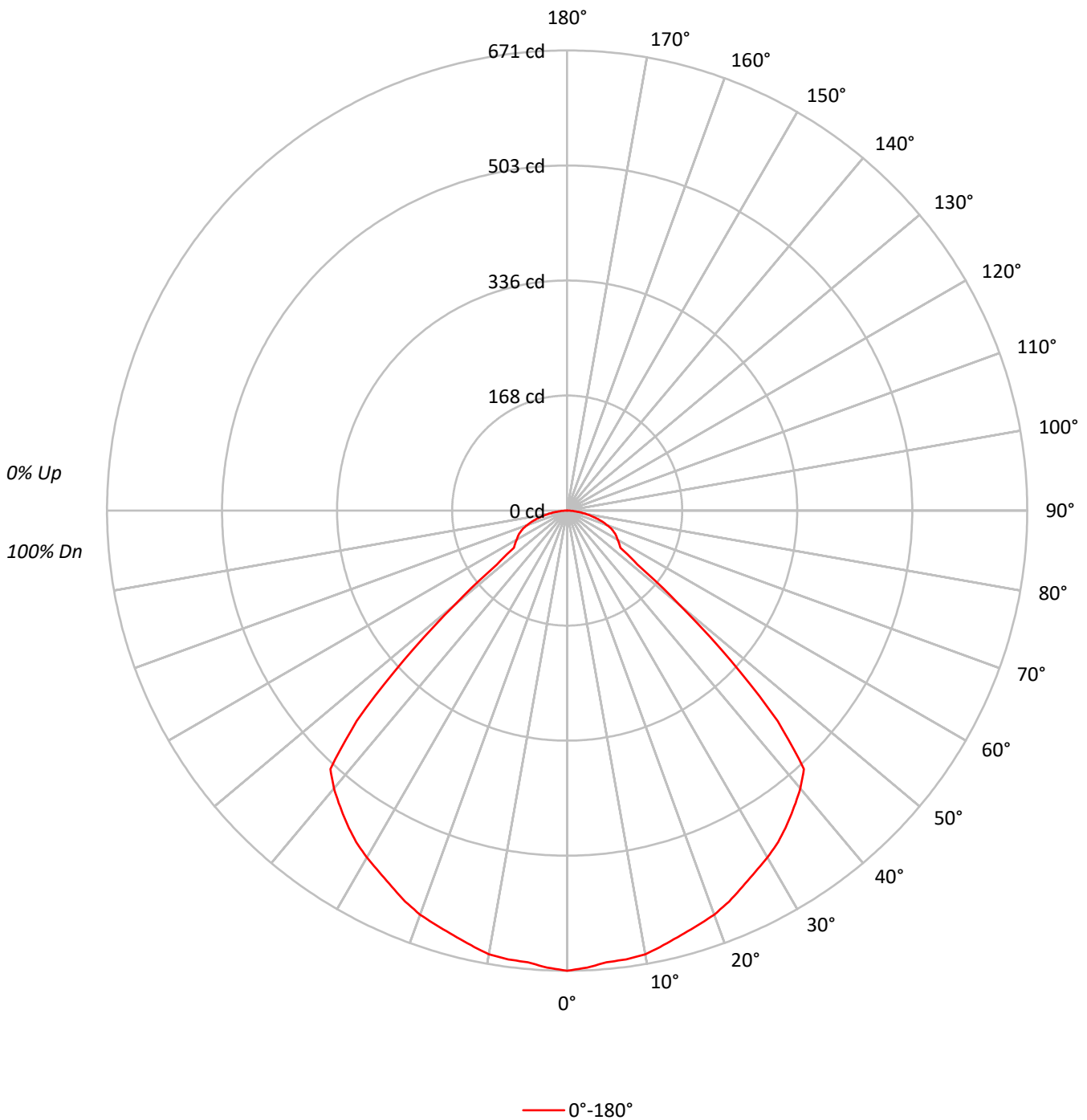
Lumens per Lamp: 1424 (1 lamp)
Luminaire Lumens: 1425.1 lumens
Efficiency: 100.1%
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.38
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
Input Voltage (V): NR
Input Current (Ain): 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	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	65	86	77	70	64	74	68	63		72	67	62		70	65	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59	53	49	47
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54	49	44	43
8	66	54	46	41	65	53	46	41	52	46	41		51	45	41		50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36784
5°	36375
10°	36572
15°	36379
20°	36578
25°	36595
30°	36968
35°	37410
40°	37857
45°	33647
50°	18166
55°	9080
60°	9319
65°	9858
70°	9938
75°	9531
80°	8524
85°	6919



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	63.1	4.4	4.4
10°-20°	181.4	12.7	12.7
20°-30°	279.6	19.6	19.6
30°-40°	349.9	24.6	24.6
40°-50°	313.7	22.0	22.0
50°-60°	102.9	7.2	7.2
60°-70°	74.4	5.2	5.2
70°-80°	47.3	3.3	3.3
80°-90°	12.6	0.9	0.9
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°	524.1	36.8	36.8
0°-40°	874.0	61.3	61.4
0°-60°	1290.7	90.6	90.6
0°-90°	1425.1	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°	1425.1	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	671	
5°	661	63
15°	641	181
25°	605	280
35°	559	350
45°	434	314
55°	95	103
65°	76	74
75°	45	47
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	671
2.5°	667
5°	661
7.5°	660
10°	657
12.5°	649
15°	641
17.5°	634
20°	627
22.5°	617
25°	605
27.5°	594
30°	584
32.5°	573
35°	559
37.5°	544
40°	529
42.5°	511
45°	434
47.5°	323
50°	213
52.5°	129
55°	95
57.5°	90
60°	85
62.5°	81
65°	76
67.5°	70
70°	62
72.5°	54
75°	45
77.5°	36
80°	27
82.5°	18
85°	11
87.5°	4
90°	0

(END OF REPORT)