

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: P20142

Luminaire Tested: **ML712830TUNVD010-494WB06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20142
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712830TUNVD010-494WB06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN TRIM
REFLECTOR WITH ML712830TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

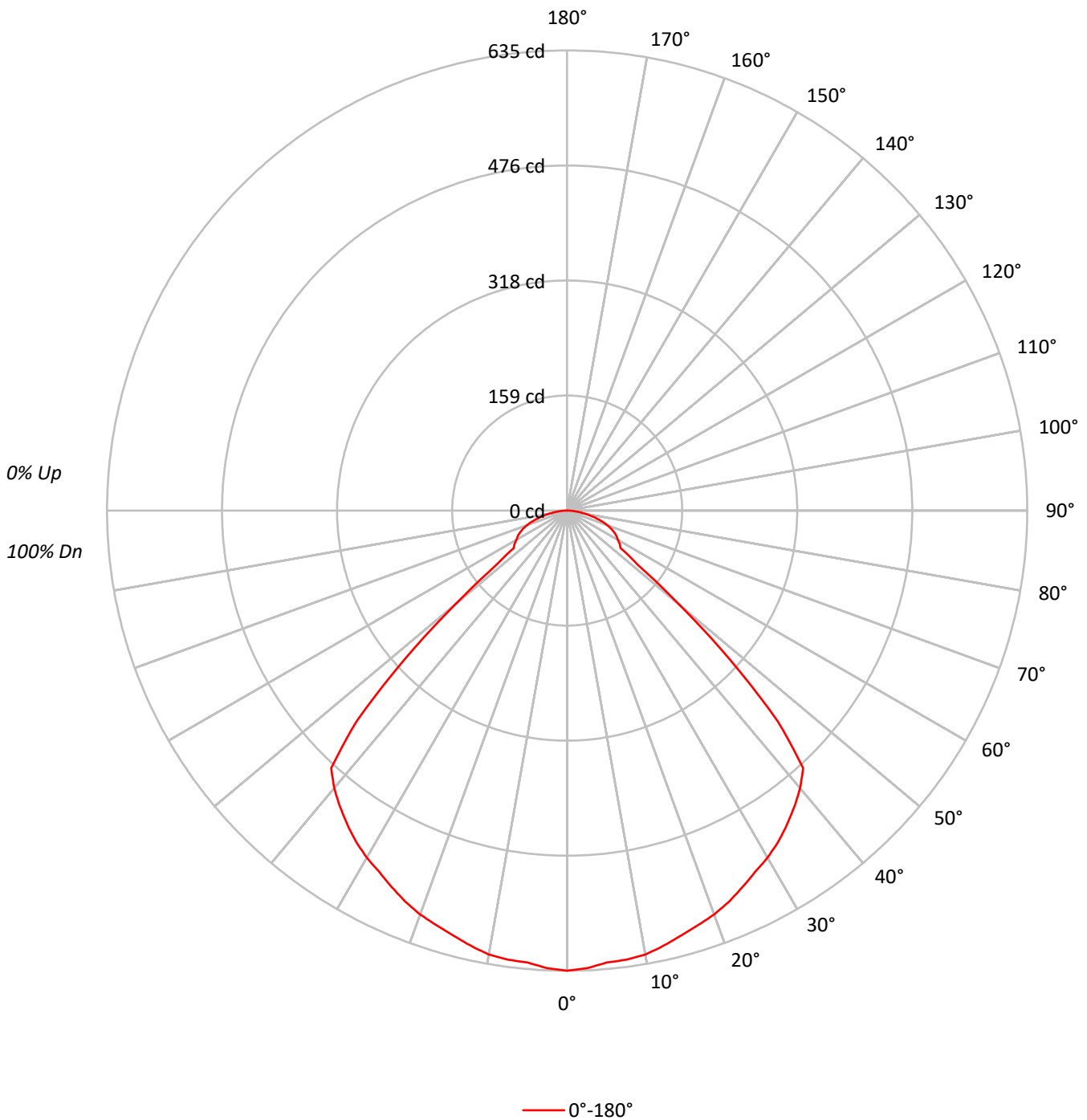
Lumens per Lamp: 1348 (1 lamp)
Luminaire Lumens: 1348.5 lumens
Efficiency: 100.0%
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.38
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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	103	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	45	69	58	51	45	57	50	45		55	49	45		54	49	44	43
8	66	54	46	41	65	53	46	41	52	45	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°	34811
5°	34449
10°	34624
15°	34450
20°	34595
25°	34659
30°	35005
35°	35402
40°	35781
45°	31864
50°	17228
55°	8602
60°	8881
65°	9340
70°	9457
75°	8896
80°	7892
85°	6290



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	59.7	4.4	4.4
10°-20°	171.7	12.7	12.7
20°-30°	264.7	19.6	19.6
30°-40°	331.1	24.6	24.6
40°-50°	296.5	22.0	22.0
50°-60°	97.7	7.2	7.2
60°-70°	70.6	5.2	5.2
70°-80°	44.6	3.3	3.3
80°-90°	11.8	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°	496.1	36.8	36.8
0°-40°	827.3	61.3	61.4
0°-60°	1221.5	90.6	90.6
0°-90°	1348.5	100.0	100.0
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°	1348.5	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	635	
5°	626	60
15°	607	172
25°	573	265
35°	529	331
45°	411	297
55°	90	98
65°	72	71
75°	42	45
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	635
2.5°	632
5°	626
7.5°	625
10°	622
12.5°	615
15°	607
17.5°	600
20°	593
22.5°	584
25°	573
27.5°	562
30°	553
32.5°	542
35°	529
37.5°	515
40°	500
42.5°	482
45°	411
47.5°	305
50°	202
52.5°	122
55°	90
57.5°	86
60°	81
62.5°	77
65°	72
67.5°	66
70°	59
72.5°	51
75°	42
77.5°	34
80°	25
82.5°	17
85°	10
87.5°	4
90°	0

(END OF REPORT)