

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: P20123

Luminaire Tested: **ML712830TUNVD010-493TBZS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20123
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712830TUNVD010-493TBZS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH TUSCAN BRONZE TRIM 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: 1059 (2 lamps)
Luminaire Lumens: 1060.0 lumens
Efficiency: 50.0%
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.95
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

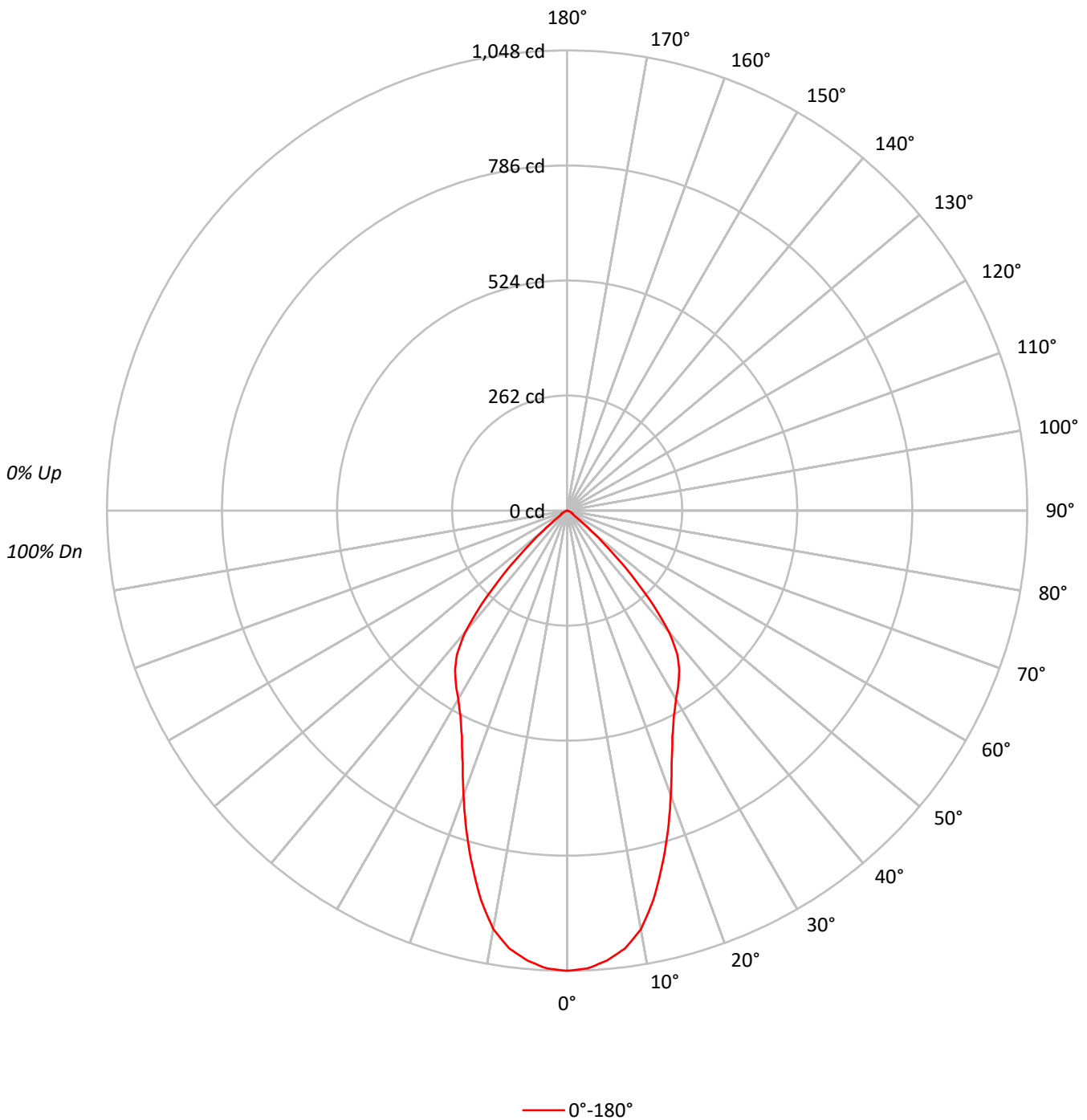
Input Watts (W): 27.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50									50																			
1	57	55	54	52	55	54	53	52	52	51	50	50	49	49	48	48	47	46									46																			
2	53	51	49	47	52	50	48	46	48	47	45	47	45	44	45	44	43	42									42																			
3	50	47	44	42	49	46	44	42	45	43	41	43	42	40	42	41	40	39									39																			
4	47	43	40	38	46	43	40	38	42	39	37	41	38	37	40	38	36	35									35																			
5	45	40	37	34	44	40	37	34	39	36	34	38	35	34	37	35	33	33									33																			
6	42	37	34	32	41	37	34	31	36	33	31	35	33	31	35	32	31	30									30																			
7	40	35	31	29	39	34	31	29	34	31	29	33	30	29	32	30	28	28									28																			
8	38	32	29	27	37	32	29	27	31	29	27	31	28	27	30	28	26	26									26																			
9	36	30	27	25	35	30	27	25	30	27	25	29	26	25	29	26	25	24									24																			
10	34	28	25	23	33	28	25	23	28	25	23	27	25	23	27	25	23	22									22																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57452
5°	56625
10°	53885
15°	47446
20°	40253
25°	34296
30°	31397
35°	29781
40°	25834
45°	15738
50°	5970
55°	2007
60°	1535
65°	1167
70°	481
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	96.4	9.1	4.5
10°-20°	232.3	21.9	11.0
20°-30°	264.5	24.9	12.5
30°-40°	274.3	25.9	13.0
40°-50°	157.8	14.9	7.5
50°-60°	25.4	2.4	1.2
60°-70°	8.7	0.8	0.4
70°-80°	0.7	0.1	0.0
80°-90°	0.0	0.0	0.0
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°	593.1	56.0	28.0
0°-40°	867.4	81.8	41.0
0°-60°	1050.6	99.1	49.6
0°-90°	1060.0	100.0	50.0
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°	1060.0	100.0	50.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1048	
5°	1029	96
15°	836	232
25°	567	264
35°	445	274
45°	203	158
55°	21	25
65°	9	9
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1048
2.5°	1044
5°	1029
7.5°	1006
10°	968
12.5°	908
15°	836
17.5°	763
20°	690
22.5°	622
25°	567
27.5°	526
30°	496
32.5°	471
35°	445
37.5°	412
40°	361
42.5°	285
45°	203
47.5°	128
50°	70
52.5°	35
55°	21
57.5°	17
60°	14
62.5°	12
65°	9
67.5°	6
70°	3
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)