

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: P20165

Luminaire Tested: **ML712827TUNVD010-494H06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20165
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010-494H06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH HAZE FINISH TRIM
REFLECTOR WITH MODULE ML712827TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1338 (1 lamp)
Luminaire Lumens: 1338.6 lumens
Efficiency: 100.0%
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.34
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

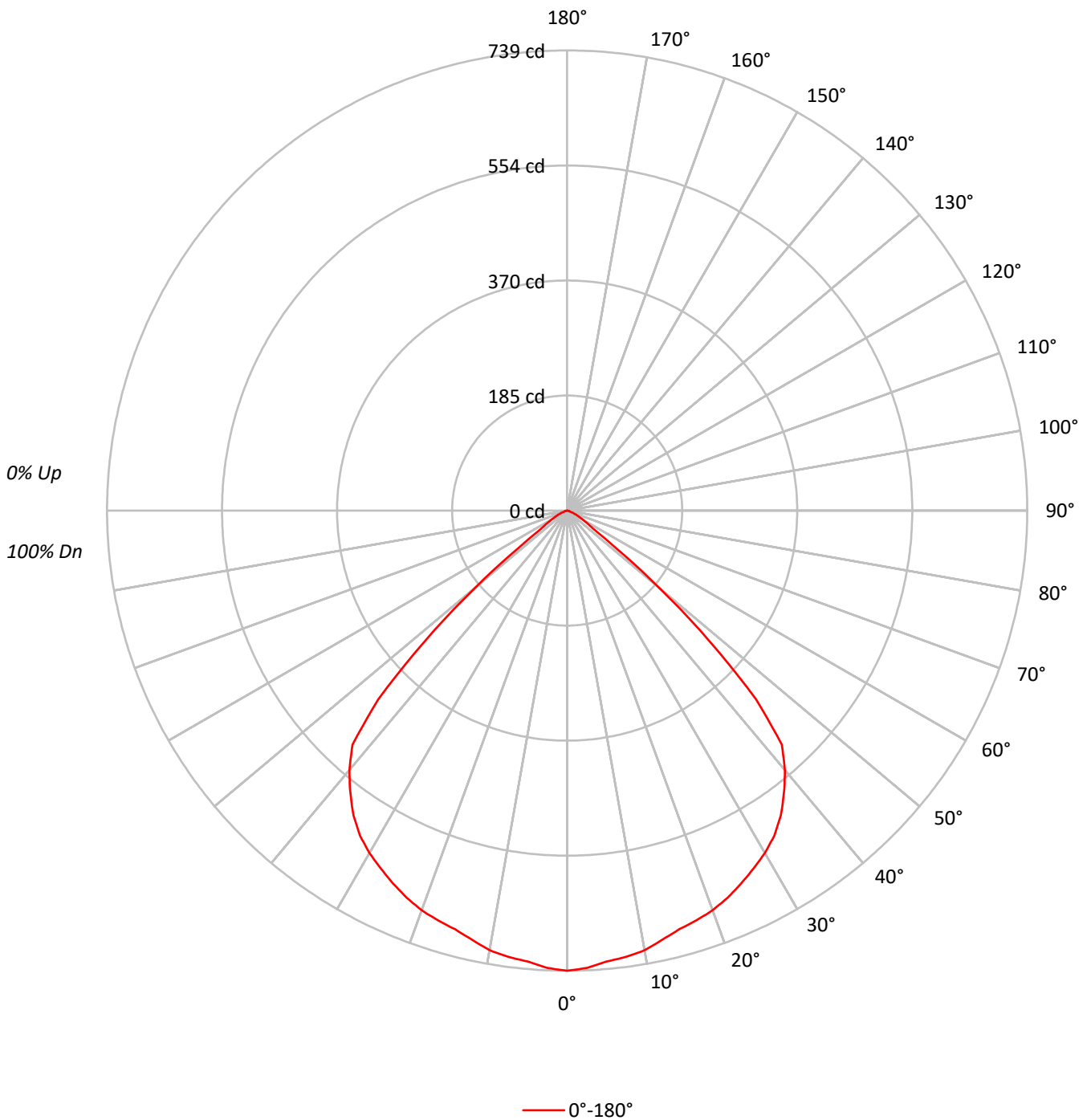
Input Watts (W): 26.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77		84	80	76		81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56		65	59	55		63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46		55	50	45		54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40512
5°	40006
10°	39912
15°	39501
20°	39845
25°	39982
30°	40196
35°	40020
40°	38930
45°	33259
50°	16460
55°	4779
60°	3180
65°	2075
70°	1122
75°	635
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	69.2	5.2	5.2
10°-20°	197.4	14.7	14.8
20°-30°	304.9	22.8	22.8
30°-40°	372.4	27.8	27.8
40°-50°	309.3	23.1	23.1
50°-60°	65.1	4.9	4.9
60°-70°	16.5	1.2	1.2
70°-80°	3.4	0.3	0.3
80°-90°	0.4	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°	571.5	42.7	42.7
0°-40°	943.9	70.5	70.5
0°-60°	1318.3	98.5	98.5
0°-90°	1338.6	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°	1338.6	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	739	
5°	727	69
15°	696	197
25°	661	305
35°	598	372
45°	429	309
55°	50	65
65°	16	16
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	739
2.5°	735
5°	727
7.5°	723
10°	717
12.5°	706
15°	696
17.5°	690
20°	683
22.5°	673
25°	661
27.5°	648
30°	635
32.5°	619
35°	598
37.5°	572
40°	544
42.5°	510
45°	429
47.5°	310
50°	193
52.5°	97
55°	50
57.5°	38
60°	29
62.5°	22
65°	16
67.5°	11
70°	7
72.5°	4
75°	3
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)