

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: P300526

Luminaire Tested: **ML4D09_27D2WE - TIR50WFL55 - TL43R2GGBBB - TL44S2GGBBB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P300526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1902-156-40)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML4D09_27D2WE - TIR50WFL55 - TL43R2GGBBB - TL44S2GGBBB
Description: ML4 2700K, 900LM DIM-TO-WARM, 55 DEG WFL OPTIC, WITH ROUND/SQUARE
DIFFUSED CLEAR LENS, GERMAN BRONZE FLANGE, BLACK LENS FRAME
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 501.0 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.73
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

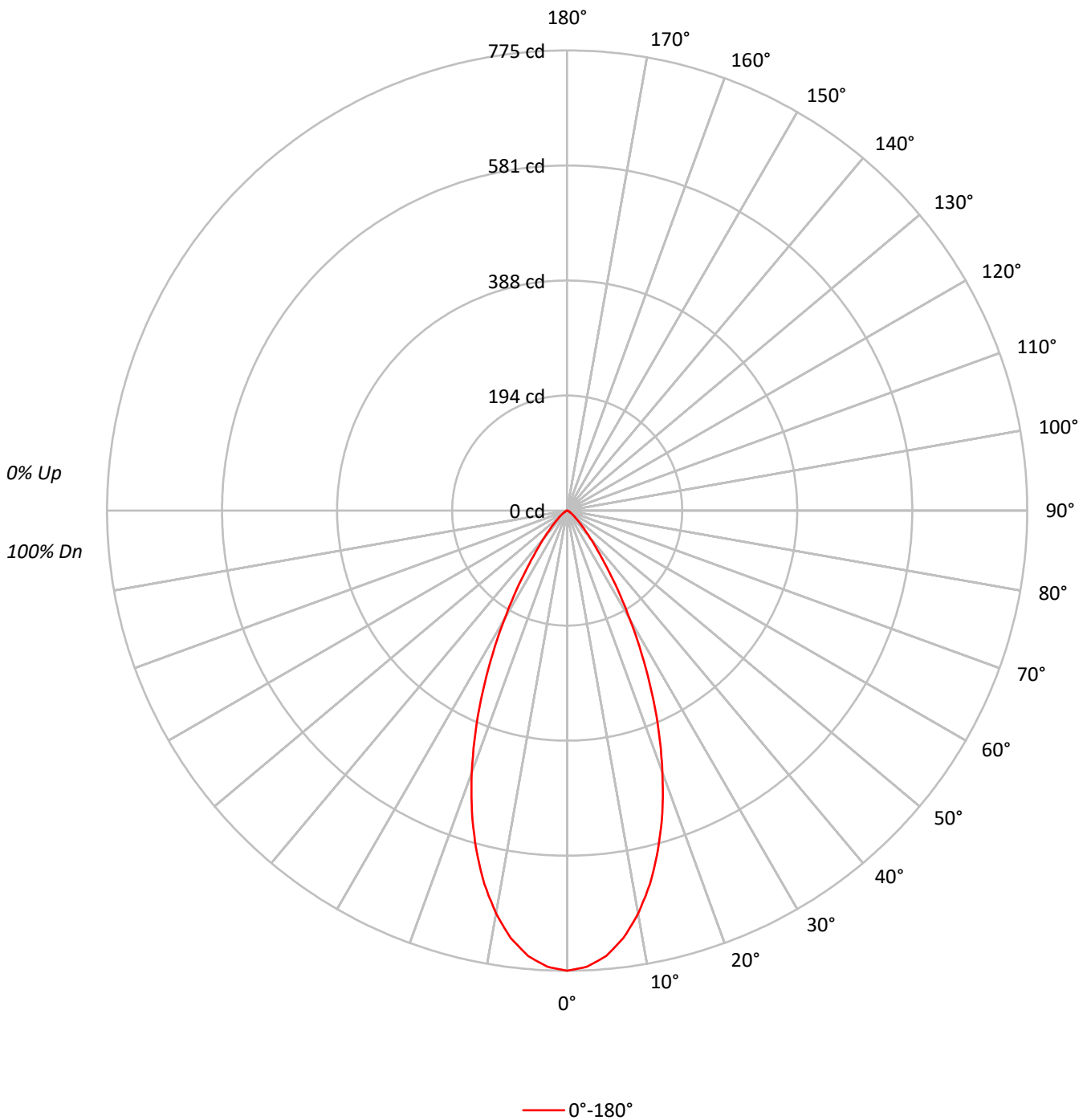
Input Watts (W): 11.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	108	104	100	97	106	102	98	95	99	96	93		96	93	91		93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86		91	88	85		88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80		86	82	79		84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75		81	78	74		80	77	74	72
6	89	81	75	71	88	80	75	71	79	74	70		77	73	70		76	72	70	68
7	85	77	71	67	84	76	71	67	75	70	66		74	69	66		72	69	66	64
8	82	73	67	63	80	72	67	63	71	66	63		70	66	62		69	65	62	61
9	78	69	63	60	77	68	63	59	68	63	59		67	62	59		66	62	59	58
10	75	66	60	56	74	65	60	56	64	60	56		64	59	56		63	59	56	55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	302120
5°	294665
10°	272778
15°	238599
20°	194731
25°	144783
30°	94844
35°	55109
40°	30483
45°	17642
50°	10310
55°	6797
60°	3898
65°	2767
70°	2280
75°	1506
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	13.9
10°-20°	163.2	32.6
20°-30°	152.9	30.5
30°-40°	75.7	15.1
40°-50°	26.1	5.2
50°-60°	9.1	1.8
60°-70°	3.1	0.6
70°-80°	1.1	0.2
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	385.9	77.0
0°-40°	461.6	92.1
0°-60°	496.9	99.2
0°-90°	501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	501.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	775	
5°	753	70
15°	591	163
25°	337	153
35°	116	76
45°	32	26
55°	10	9
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	775.0
2.5°	769.0
5°	753.0
7.5°	726.1
10°	689.1
12.5°	644.2
15°	591.2
17.5°	533.3
20°	469.4
22.5°	403.5
25°	336.6
27.5°	271.6
30°	210.7
32.5°	158.8
35°	115.8
37.5°	83.9
40°	59.9
42.5°	43.9
45°	32.0
47.5°	23.0
50°	17.0
52.5°	13.0
55°	10.0
57.5°	7.0
60°	5.0
62.5°	4.0
65°	3.0
67.5°	2.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)