

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: P300524

Luminaire Tested: **ML4D09_27D2WE - TIR50WFL55 - TL43R2GM BBB - TL44S2GM BBB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P300524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1902-156-38)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML4D09_27D2WE - TIR50WFL55 - TL43R2GM BBB - TL44S2GM BBB
Description: ML4 2700K, 900LM DIM-TO-WARM, 55 DEG WFL OPTIC, WITH ROUND/SQUARE
DIFFUSED CLEAR LENS, MATTE BLACK 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: 508.0 lumens
Efficiency: N/A
Efficacy: 45.4 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

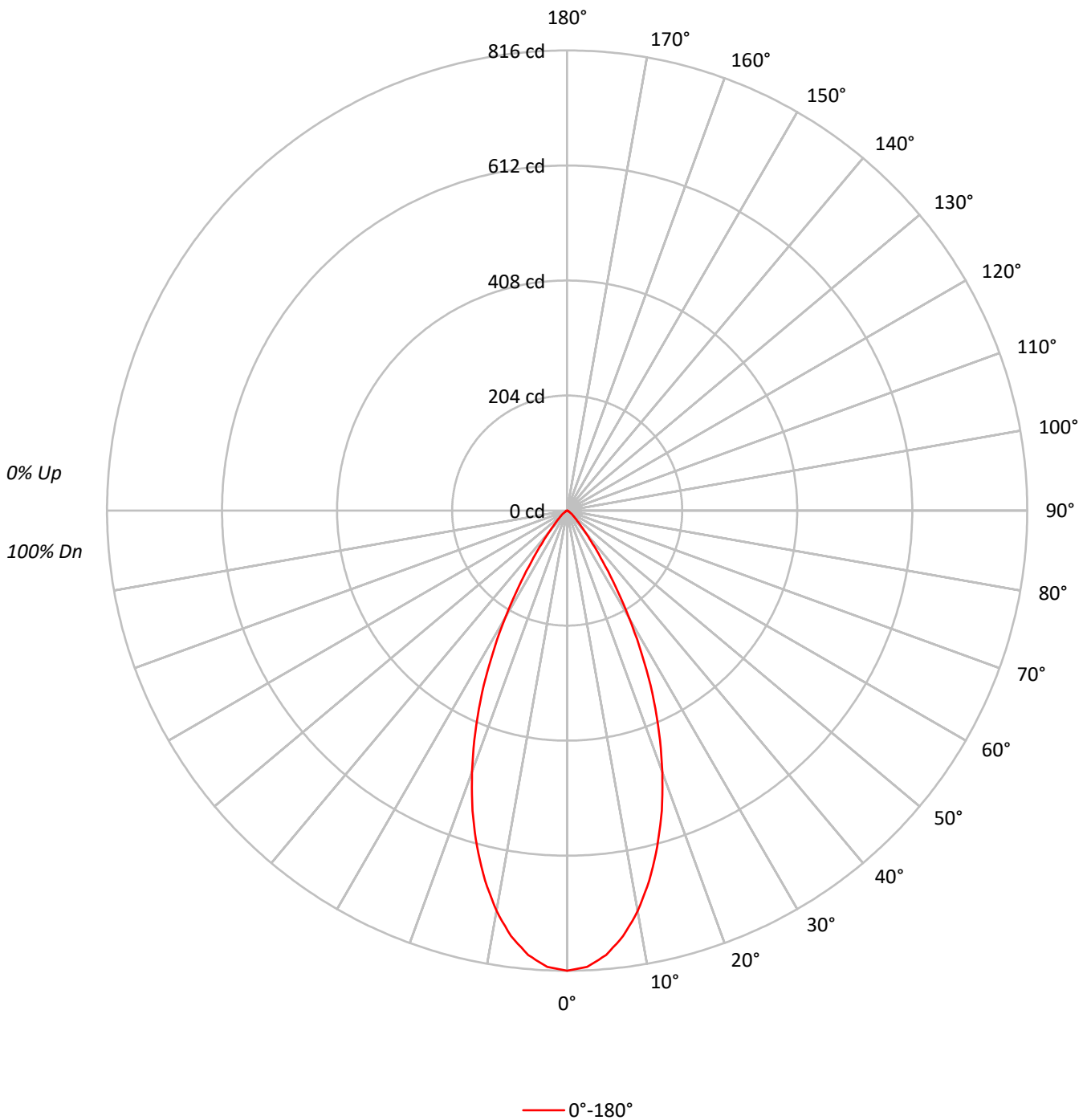
Input Watts (W): 11.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	74	71	69
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	73	70	67	66
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	66	61	58	65	60	57	64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	318103
5°	309535
10°	285405
15°	249011
20°	204521
25°	153557
30°	98581
35°	52349
40°	25444
45°	13231
50°	7884
55°	4758
60°	3119
65°	1845
70°	1140
75°	1506
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	14.4
10°-20°	170.6	33.6
20°-30°	161.3	31.7
30°-40°	72.9	14.4
40°-50°	20.4	4.0
50°-60°	6.8	1.3
60°-70°	2.1	0.4
70°-80°	0.7	0.1
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°	405.2	79.8
0°-40°	478.1	94.1
0°-60°	505.3	99.5
0°-90°	508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	816	
5°	791	73
15°	617	171
25°	357	161
35°	110	73
45°	24	20
55°	7	7
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	816
2.5°	810
5°	791
7.5°	761
10°	721
12.5°	672
15°	617
17.5°	558
20°	493
22.5°	426
25°	357
27.5°	287
30°	219
32.5°	159
35°	110
37.5°	74
40°	50
42.5°	34
45°	24
47.5°	18
50°	13
52.5°	10
55°	7
57.5°	5
60°	4
62.5°	3
65°	2
67.5°	1
70°	1
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)