

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 COMMERCIAL

Report Number: P593070

Luminaire Tested: **HC610D010-HM60525950-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525950-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 941.4 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

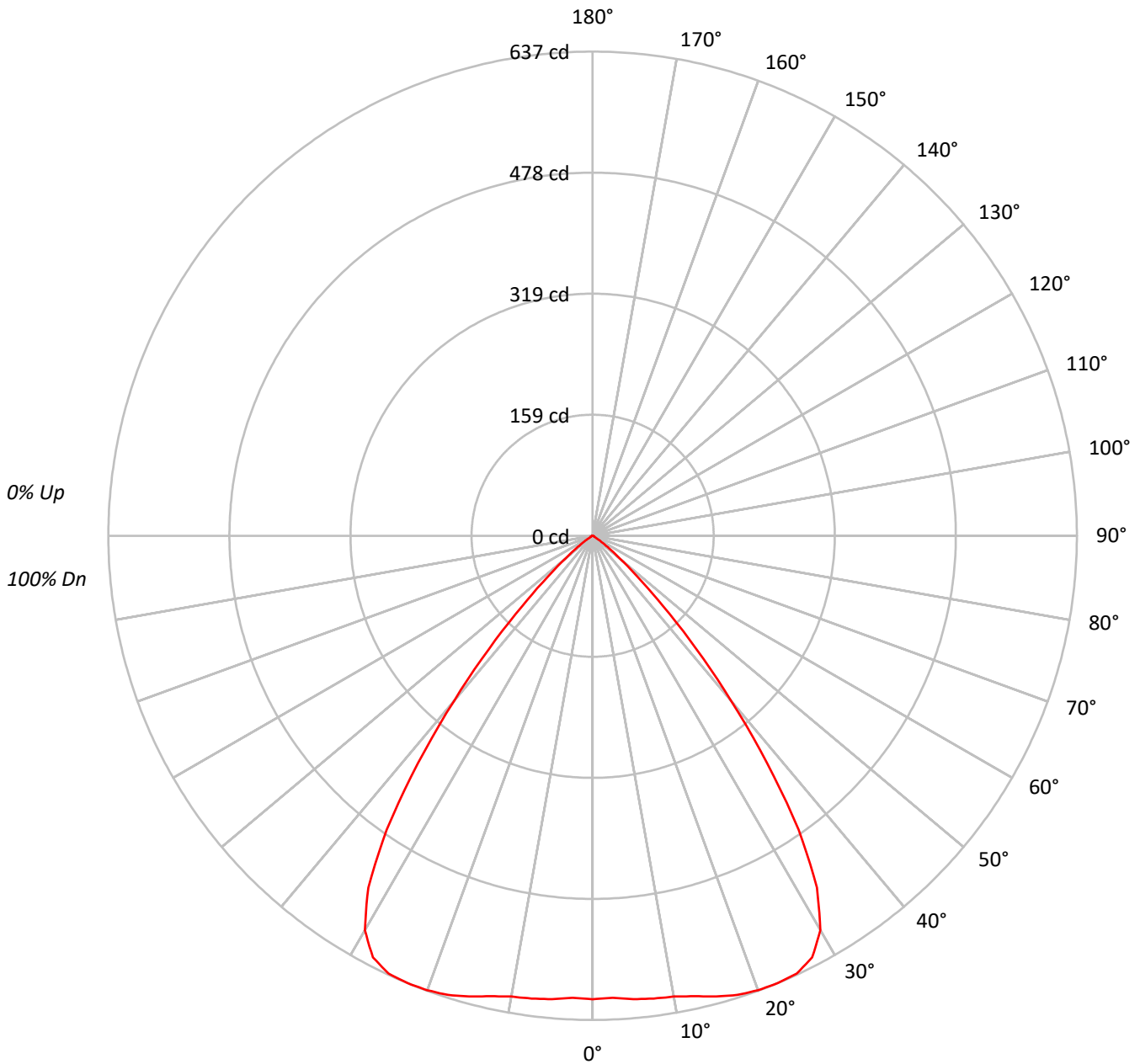
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	85			85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71			71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65			65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33429
5°	33678
10°	34262
15°	35619
20°	37115
25°	38440
30°	37924
35°	31601
40°	20259
45°	10117
50°	4017
55°	1367
60°	395
65°	285
70°	240
75°	318
80°	221
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	6.2
10°-20°	178.0	18.9
20°-30°	290.7	30.9
30°-40°	284.9	30.3
40°-50°	109.2	11.6
50°-60°	16.1	1.7
60°-70°	2.4	0.3
70°-80°	1.3	0.1
80°-90°	0.3	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°	527.2	56.0
0°-40°	812.1	86.3
0°-60°	937.4	99.6
0°-90°	941.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	610	
5°	612	59
15°	628	178
25°	636	291
35°	472	285
45°	130	109
55°	14	16
65°	2	2
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	609.8
2.5°	608.3
5°	612.0
7.5°	614.1
10°	615.5
12.5°	620.4
15°	627.6
17.5°	633.4
20°	636.2
22.5°	636.9
25°	635.5
27.5°	625.5
30°	599.1
32.5°	549.1
35°	472.2
37.5°	377.3
40°	283.1
42.5°	201.8
45°	130.5
47.5°	79.9
50°	47.1
52.5°	27.1
55°	14.3
57.5°	6.5
60°	3.6
62.5°	2.8
65°	2.2
67.5°	2.2
70°	1.5
72.5°	1.5
75°	1.5
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)