

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: P583263

Luminaire Tested: **HC660D010-HM64560940-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560940-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5049.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

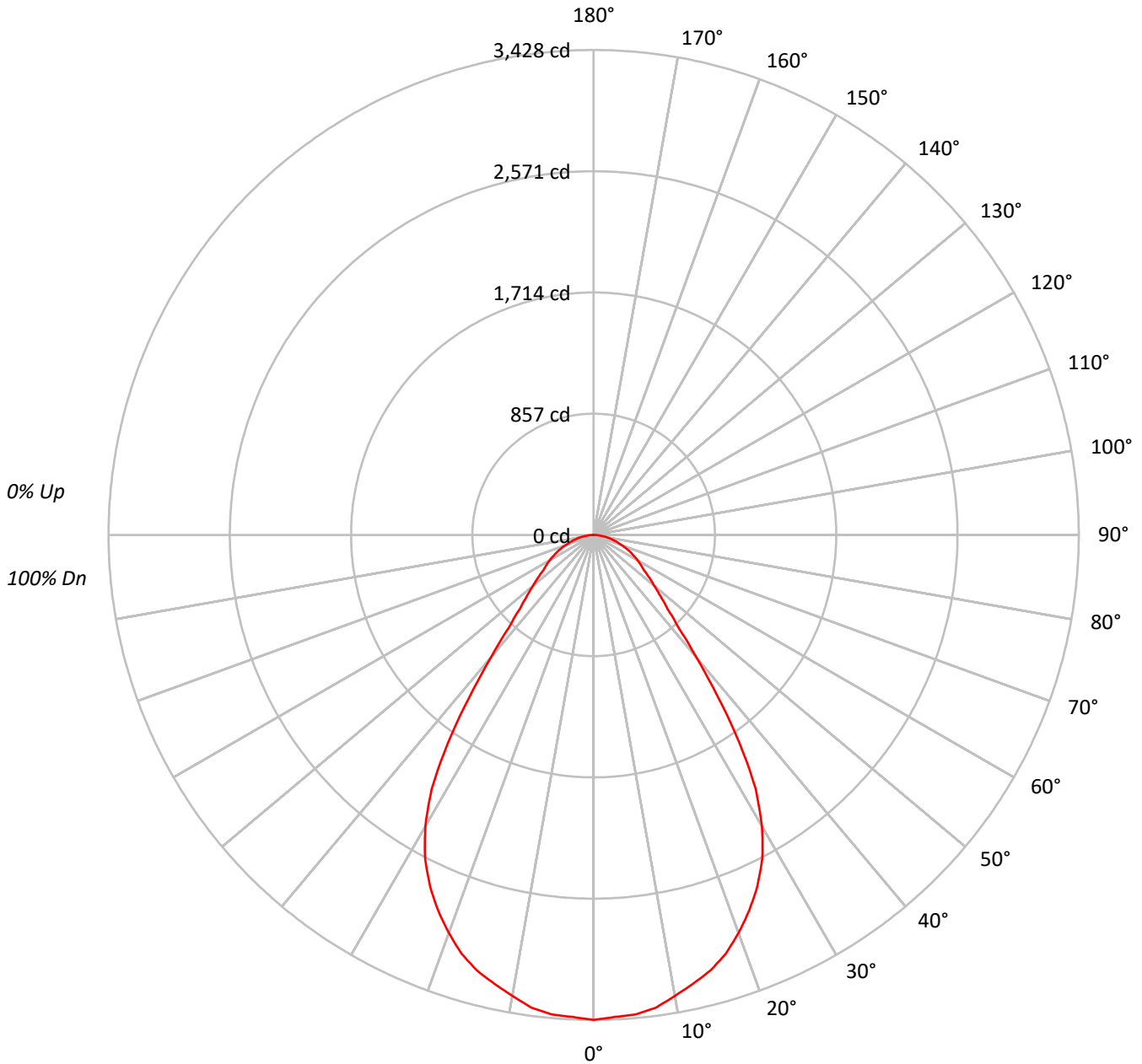
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC660D010-HM64560940-61MDW

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	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	187951
5°	187266
10°	184137
15°	180892
20°	174636
25°	165596
30°	150624
35°	120354
40°	80300
45°	57246
50°	47700
55°	41566
60°	39273
65°	36982
70°	33980
75°	31729
80°	28855
85°	25348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	6.4
10°-20°	894.9	17.7
20°-30°	1250.6	24.8
30°-40°	1101.6	21.8
40°-50°	595.2	11.8
50°-60°	397.9	7.9
60°-70°	282.0	5.6
70°-80°	158.6	3.1
80°-90°	46.3	0.9
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°	2467.3	48.9
0°-40°	3569.0	70.7
0°-60°	4562.1	90.4
0°-90°	5049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5049.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3428	
5°	3403	322
15°	3187	895
25°	2738	1251
35°	1798	1102
45°	738	595
55°	435	398
65°	285	282
75°	150	159
85°	40	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3428.5
2.5°	3410.3
5°	3403.0
7.5°	3370.0
10°	3307.9
12.5°	3249.4
15°	3187.3
17.5°	3103.2
20°	2993.5
22.5°	2873.0
25°	2737.7
27.5°	2580.5
30°	2379.5
32.5°	2130.9
35°	1798.4
37.5°	1436.5
40°	1122.1
42.5°	884.5
45°	738.4
47.5°	639.7
50°	559.3
52.5°	493.4
55°	434.9
57.5°	394.8
60°	358.2
62.5°	321.6
65°	285.1
67.5°	248.5
70°	212.0
72.5°	179.1
75°	149.8
77.5°	120.7
80°	91.4
82.5°	65.8
85°	40.3
87.5°	18.3
90°	0.0



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— 0°-180°







(END OF REPORT)