

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: P582726

Luminaire Tested: **HC650D010-HM64560830-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560830-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4746.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

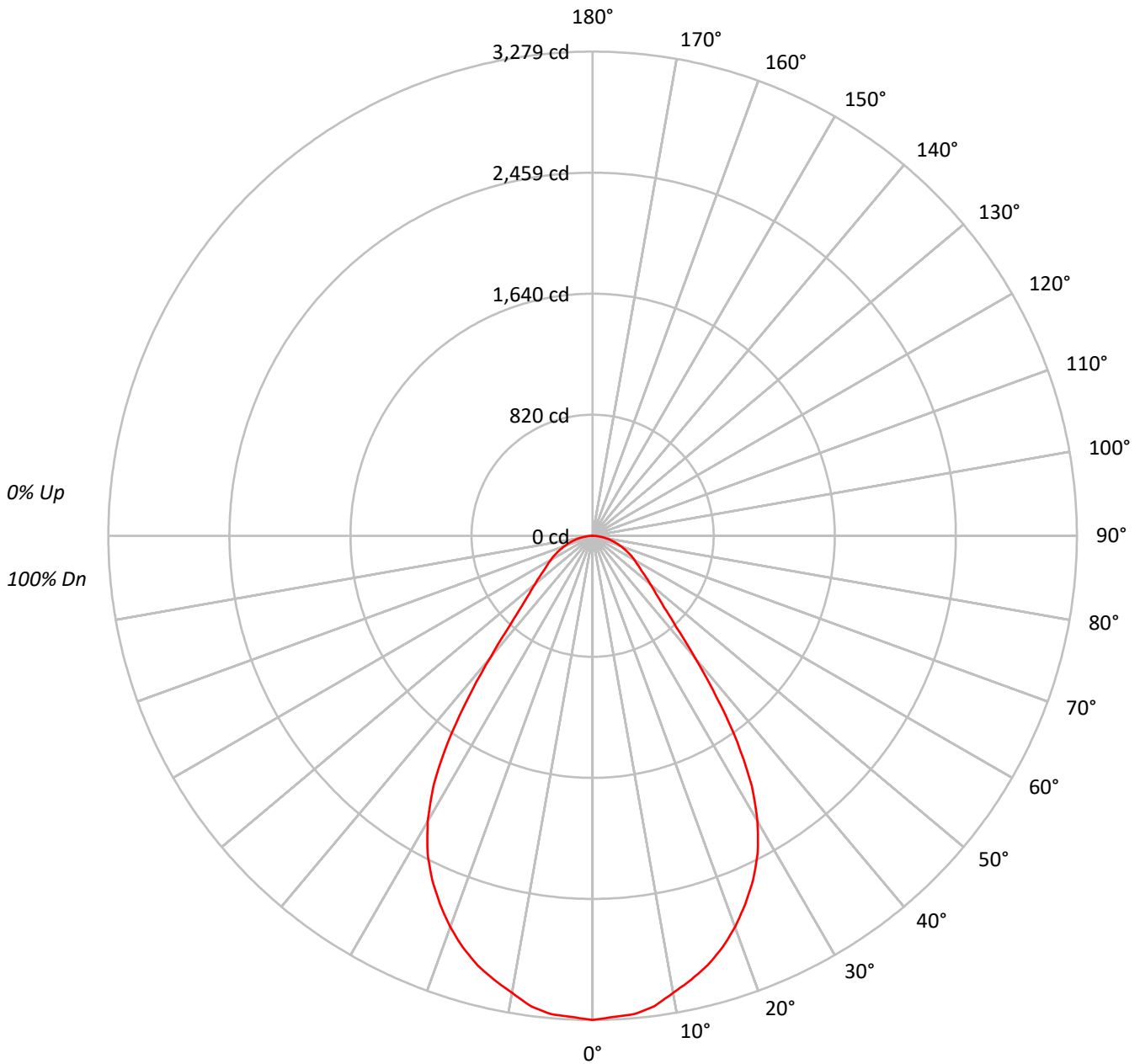
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	179755
5°	178912
10°	174958
15°	170858
20°	164433
25°	155507
30°	141326
35°	114392
40°	77137
45°	53006
50°	43427
55°	38001
60°	35962
65°	33934
70°	31880
75°	30289
80°	27529
85°	24153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	6.5
10°-20°	845.4	17.8
20°-30°	1174.5	24.7
30°-40°	1045.8	22.0
40°-50°	555.1	11.7
50°-60°	363.0	7.6
60°-70°	260.2	5.5
70°-80°	150.9	3.2
80°-90°	44.2	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°	2326.9	49.0
0°-40°	3372.6	71.1
0°-60°	4290.8	90.4
0°-90°	4746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4746.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3279	
5°	3251	307
15°	3010	845
25°	2571	1175
35°	1709	1046
45°	684	555
55°	398	363
65°	262	260
75°	143	151
85°	38	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3279.0
2.5°	3261.6
5°	3251.2
7.5°	3212.8
10°	3143.0
12.5°	3080.2
15°	3010.5
17.5°	2923.2
20°	2818.6
22.5°	2700.0
25°	2570.9
27.5°	2420.9
30°	2232.6
32.5°	2005.8
35°	1709.3
37.5°	1381.4
40°	1077.9
42.5°	837.2
45°	683.7
47.5°	582.6
50°	509.2
52.5°	450.0
55°	397.6
57.5°	359.3
60°	328.0
62.5°	296.5
65°	261.6
67.5°	230.2
70°	198.9
72.5°	170.9
75°	143.0
77.5°	115.1
80°	87.2
82.5°	62.8
85°	38.4
87.5°	17.5
90°	0.0



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— 0°-180°







(END OF REPORT)