

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: P582420

Luminaire Tested: **HC640D010-HM63040827-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582420
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: HC640D010-HM63040827-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3844.1 lumens
Efficiency: N/A
Efficacy: 93.8 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

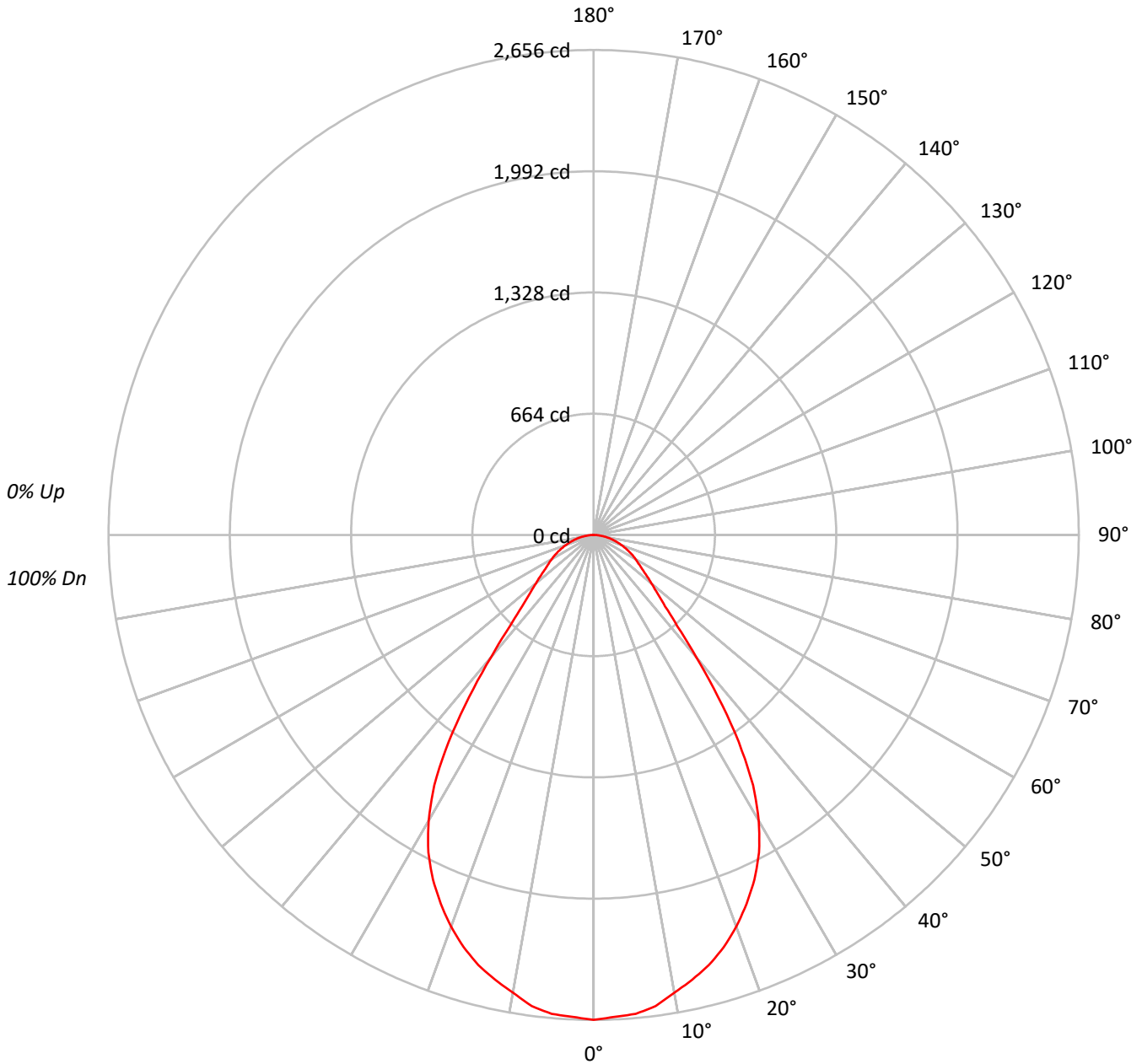
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	83	86	83	81	79	79	79	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	63	63	63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57	57	57	57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52	52	52	52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44	44	44	44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41	41	41	41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38	38	38	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	145597
5°	144915
10°	141709
15°	138383
20°	133181
25°	125953
30°	114467
35°	92648
40°	62474
45°	42935
50°	35180
55°	30785
60°	29120
65°	27500
70°	25806
75°	24527
80°	22320
85°	19562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	6.5
10°-20°	684.7	17.8
20°-30°	951.3	24.7
30°-40°	847.0	22.0
40°-50°	449.6	11.7
50°-60°	294.0	7.6
60°-70°	210.8	5.5
70°-80°	122.2	3.2
80°-90°	35.8	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°	1884.7	49.0
0°-40°	2731.7	71.1
0°-60°	3475.3	90.4
0°-90°	3844.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2656	
5°	2633	249
15°	2438	685
25°	2082	951
35°	1384	847
45°	554	450
55°	322	294
65°	212	211
75°	116	122
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2655.9
2.5°	2641.8
5°	2633.4
7.5°	2602.3
10°	2545.7
12.5°	2494.9
15°	2438.3
17.5°	2367.7
20°	2282.9
22.5°	2186.9
25°	2082.3
27.5°	1960.8
30°	1808.3
32.5°	1624.6
35°	1384.4
37.5°	1118.9
40°	873.0
42.5°	678.1
45°	553.8
47.5°	471.8
50°	412.5
52.5°	364.4
55°	322.1
57.5°	291.0
60°	265.6
62.5°	240.2
65°	212.0
67.5°	186.5
70°	161.0
72.5°	138.5
75°	115.8
77.5°	93.3
80°	70.7
82.5°	50.9
85°	31.1
87.5°	14.1
90°	0.0



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— 0°-180°







(END OF REPORT)