

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: P582492

Luminaire Tested: **HC640D010-HM63040927-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582492
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-HM63040927-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3245.8 lumens
Efficiency: N/A
Efficacy: 79.2 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

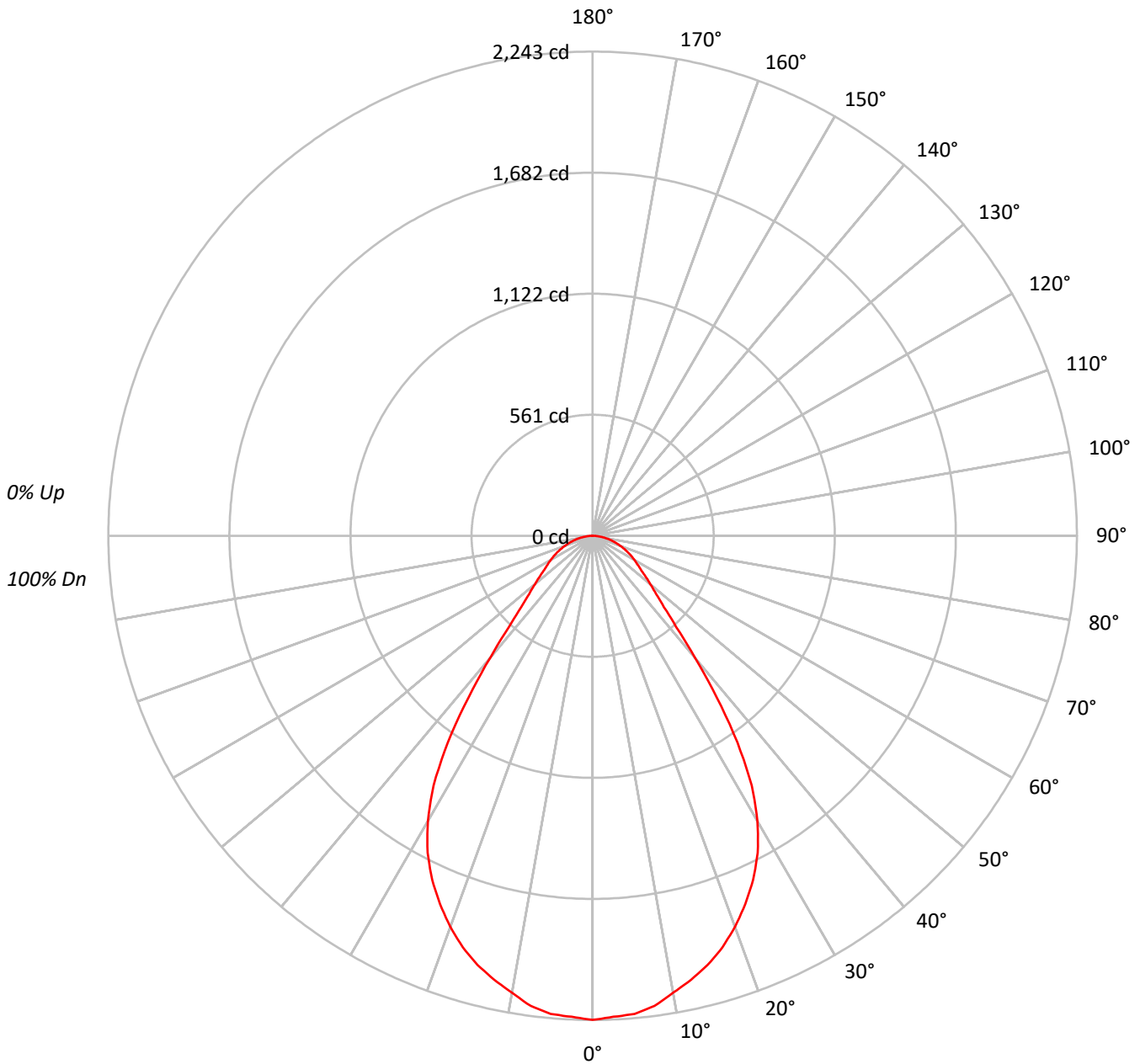
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	122940
5°	122353
10°	119648
15°	116845
20°	112453
25°	106349
30°	96654
35°	78233
40°	52756
45°	36252
50°	29705
55°	25997
60°	24581
65°	23219
70°	21799
75°	20736
80°	18816
85°	16480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	6.5
10°-20°	578.2	17.8
20°-30°	803.3	24.7
30°-40°	715.2	22.0
40°-50°	379.7	11.7
50°-60°	248.3	7.6
60°-70°	177.9	5.5
70°-80°	103.2	3.2
80°-90°	30.2	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°	1591.3	49.0
0°-40°	2306.5	71.1
0°-60°	2934.5	90.4
0°-90°	3245.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3245.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2243	
5°	2223	210
15°	2059	578
25°	1758	803
35°	1169	715
45°	468	380
55°	272	248
65°	179	178
75°	98	103
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2242.6
2.5°	2230.6
5°	2223.4
7.5°	2197.2
10°	2149.4
12.5°	2106.6
15°	2058.8
17.5°	1999.2
20°	1927.6
22.5°	1846.5
25°	1758.2
27.5°	1655.6
30°	1526.9
32.5°	1371.8
35°	1169.0
37.5°	944.7
40°	737.2
42.5°	572.6
45°	467.6
47.5°	398.5
50°	348.3
52.5°	307.7
55°	272.0
57.5°	245.7
60°	224.2
62.5°	202.7
65°	179.0
67.5°	157.5
70°	136.0
72.5°	116.9
75°	97.9
77.5°	78.7
80°	59.6
82.5°	43.0
85°	26.2
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)