

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: P582438

Luminaire Tested: **HC640D010-HM63040830-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582438
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-HM63040830-61NDW
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: 4124.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

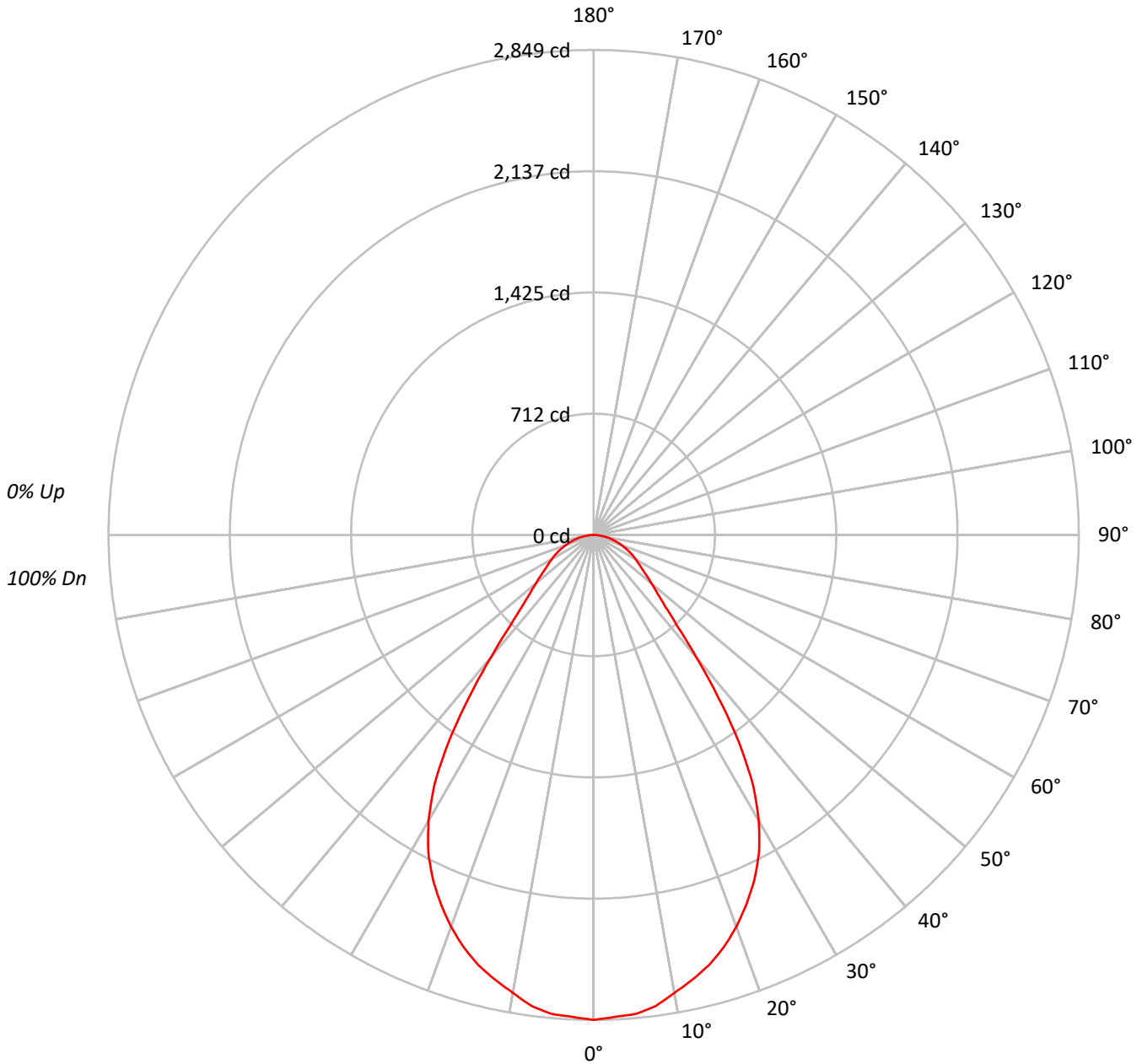
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	156199
5°	155459
10°	152029
15°	148457
20°	142888
25°	135129
30°	122804
35°	99401
40°	67026
45°	46059
50°	37739
55°	33031
60°	31237
65°	29497
70°	27697
75°	26307
80°	23930
85°	21008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.7	6.5
10°-20°	734.6	17.8
20°-30°	1020.6	24.7
30°-40°	908.7	22.0
40°-50°	482.3	11.7
50°-60°	315.5	7.6
60°-70°	226.1	5.5
70°-80°	131.1	3.2
80°-90°	38.4	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°	2021.9	49.0
0°-40°	2930.6	71.1
0°-60°	3728.4	90.4
0°-90°	4124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4124.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2849	
5°	2825	267
15°	2616	735
25°	2234	1021
35°	1485	909
45°	594	482
55°	346	315
65°	227	226
75°	124	131
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2849.3
2.5°	2834.1
5°	2825.0
7.5°	2791.7
10°	2731.1
12.5°	2676.5
15°	2615.8
17.5°	2540.1
20°	2449.3
22.5°	2346.1
25°	2234.0
27.5°	2103.7
30°	1940.0
32.5°	1742.9
35°	1485.3
37.5°	1200.3
40°	936.6
42.5°	727.4
45°	594.1
47.5°	506.2
50°	442.5
52.5°	391.1
55°	345.6
57.5°	312.2
60°	284.9
62.5°	257.6
65°	227.4
67.5°	200.1
70°	172.8
72.5°	148.5
75°	124.2
77.5°	100.0
80°	75.8
82.5°	54.6
85°	33.4
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)