

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: P582418

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040827-61NDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4301.7 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

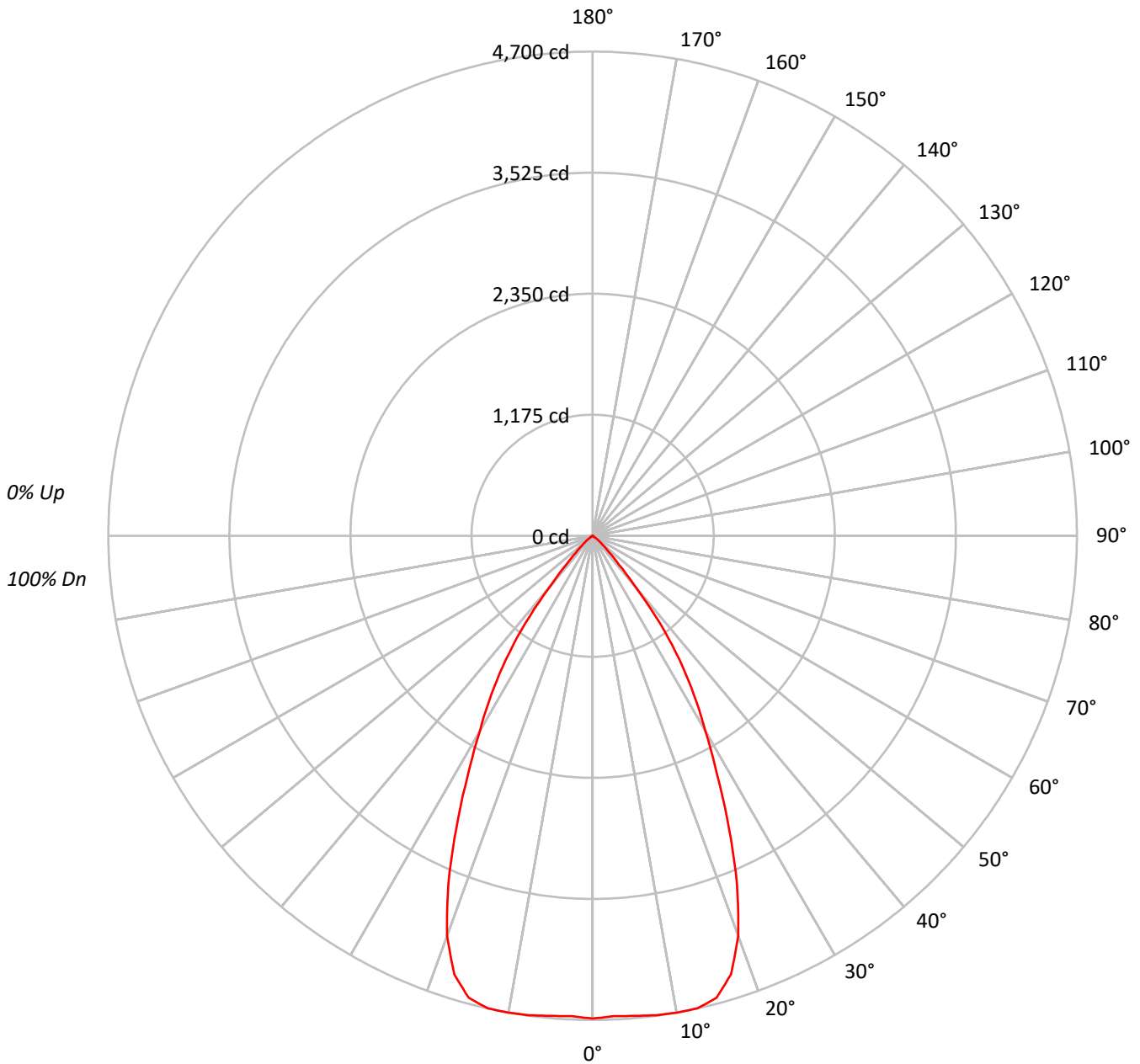
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			94
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87			87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82			82
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76			76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71			71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			67
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55			55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	256893
5°	257412
10°	261646
15°	263554
20°	240926
25°	189307
30°	138572
35°	98297
40°	46494
45°	17738
50°	7957
55°	2160
60°	921
65°	739
70°	449
75°	593
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.5	10.4
10°-20°	1283.5	29.8
20°-30°	1427.7	33.2
30°-40°	891.9	20.7
40°-50°	211.9	4.9
50°-60°	30.3	0.7
60°-70°	6.3	0.1
70°-80°	2.6	0.1
80°-90°	0.0	0.0
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°	3158.7	73.4
0°-40°	4050.6	94.2
0°-60°	4292.8	99.8
0°-90°	4301.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4301.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4686	
5°	4678	447
15°	4644	1284
25°	3130	1428
35°	1469	892
45°	229	212
55°	23	30
65°	6	6
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4686.1
2.5°	4666.5
5°	4677.7
7.5°	4694.7
10°	4700.3
12.5°	4697.5
15°	4643.8
17.5°	4463.1
20°	4129.8
22.5°	3660.9
25°	3129.7
27.5°	2621.4
30°	2189.1
32.5°	1830.4
35°	1468.8
37.5°	1079.1
40°	649.7
42.5°	375.7
45°	228.8
47.5°	146.9
50°	93.3
52.5°	53.7
55°	22.6
57.5°	11.3
60°	8.4
62.5°	8.4
65°	5.7
67.5°	5.7
70°	2.8
72.5°	2.8
75°	2.8
77.5°	2.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)