

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: P582437

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040830-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4399.7 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

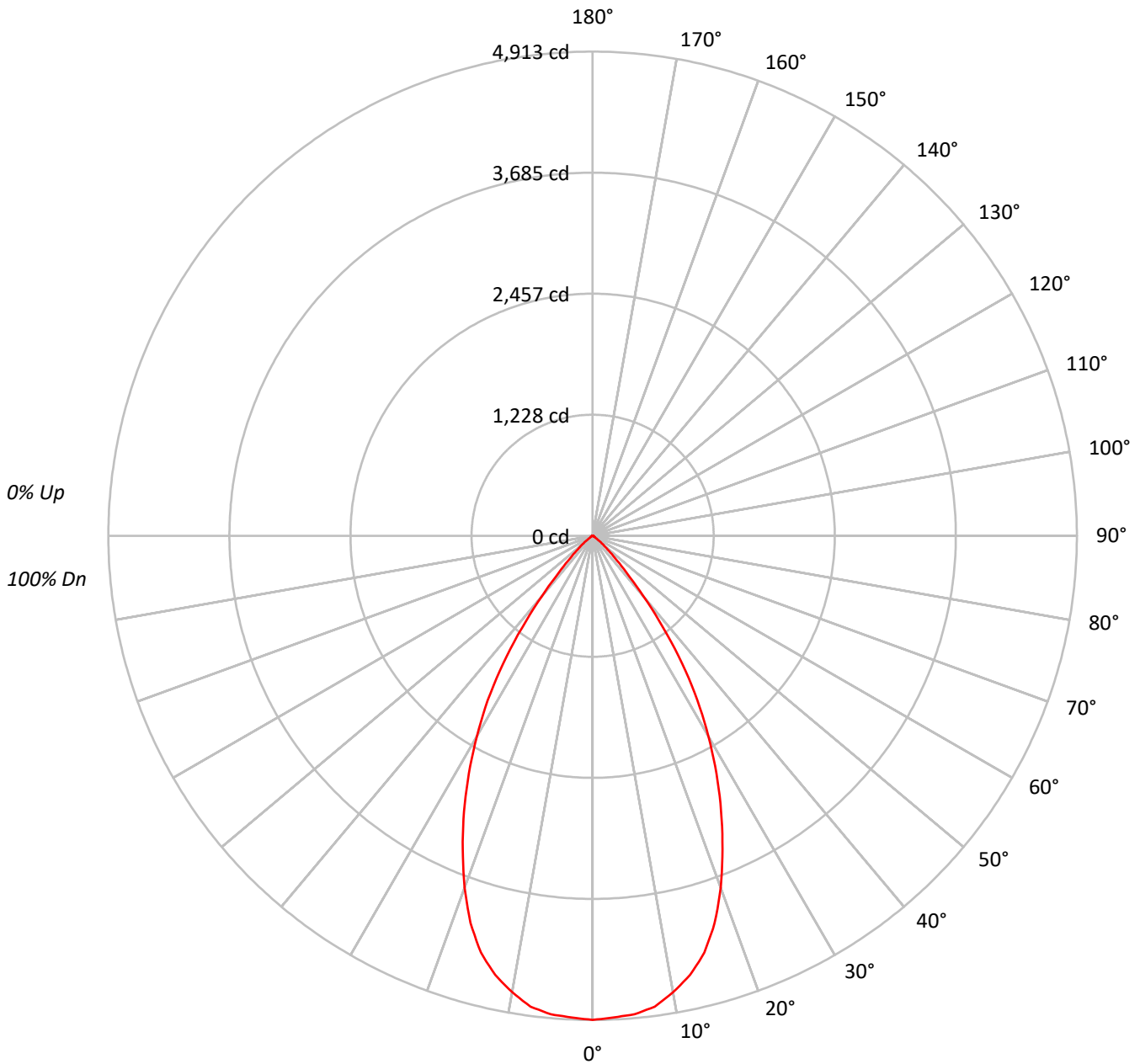
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	269326
5°	268192
10°	261841
15°	248554
20°	221552
25°	186628
30°	148687
35°	106086
40°	57043
45°	24437
50°	11113
55°	4062
60°	1995
65°	1570
70°	1459
75°	635
80°	947
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.1	10.5
10°-20°	1214.0	27.6
20°-30°	1406.0	32.0
30°-40°	972.2	22.1
40°-50°	280.7	6.4
50°-60°	48.3	1.1
60°-70°	12.4	0.3
70°-80°	4.8	0.1
80°-90°	1.2	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°	3080.1	70.0
0°-40°	4052.3	92.1
0°-60°	4381.4	99.6
0°-90°	4399.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4399.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4913	
5°	4874	460
15°	4380	1214
25°	3085	1406
35°	1585	972
45°	315	281
55°	42	48
65°	12	12
75°	3	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4912.9
2.5°	4891.8
5°	4873.6
7.5°	4819.0
10°	4703.8
12.5°	4564.4
15°	4379.5
17.5°	4118.8
20°	3797.7
22.5°	3443.0
25°	3085.4
27.5°	2718.6
30°	2348.9
32.5°	1979.2
35°	1585.2
37.5°	1175.9
40°	797.1
42.5°	503.1
45°	315.2
47.5°	203.1
50°	130.3
52.5°	78.7
55°	42.5
57.5°	24.3
60°	18.2
62.5°	15.2
65°	12.1
67.5°	9.1
70°	9.1
72.5°	6.1
75°	3.0
77.5°	3.0
80°	3.0
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)