

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: P582427

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040827-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4123.8 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

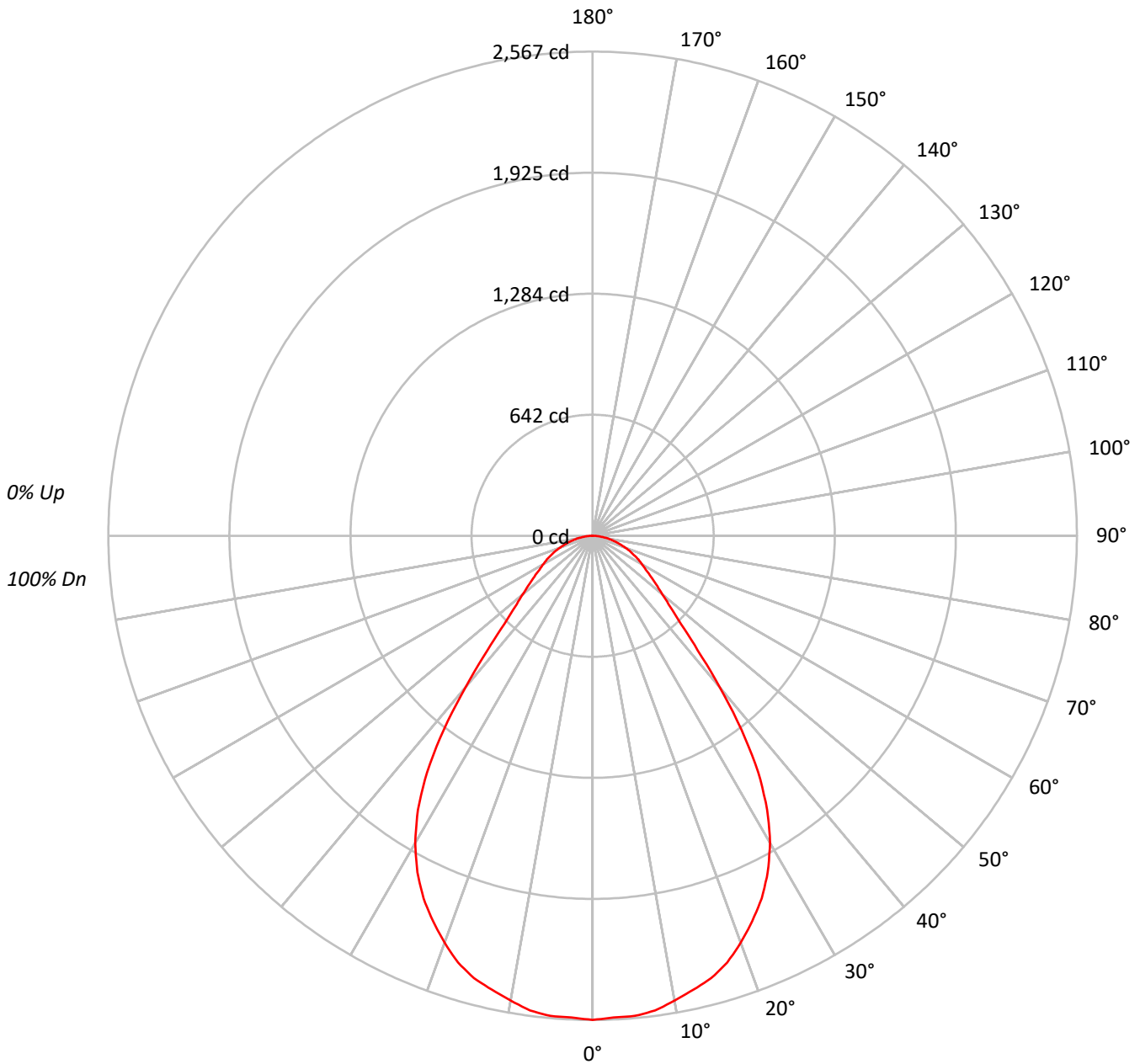
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140723
5°	140639
10°	139276
15°	137827
20°	133939
25°	128282
30°	119056
35°	102432
40°	74776
45°	51230
50°	41184
55°	35908
60°	33133
65°	31495
70°	29428
75°	27514
80°	24940
85°	21323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	5.9
10°-20°	682.1	16.5
20°-30°	970.1	23.5
30°-40°	933.9	22.6
40°-50°	537.4	13.0
50°-60°	340.5	8.3
60°-70°	241.0	5.8
70°-80°	137.4	3.3
80°-90°	39.2	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°	1894.4	45.9
0°-40°	2828.3	68.6
0°-60°	3706.2	89.9
0°-90°	4123.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2567	
5°	2556	242
15°	2428	682
25°	2121	970
35°	1531	934
45°	661	537
55°	376	340
65°	243	241
75°	130	137
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2567.0
2.5°	2555.7
5°	2555.7
7.5°	2538.7
10°	2502.0
12.5°	2465.3
15°	2428.5
17.5°	2372.1
20°	2295.9
22.5°	2211.2
25°	2120.8
27.5°	2010.7
30°	1880.8
32.5°	1722.6
35°	1530.6
37.5°	1296.2
40°	1044.9
42.5°	824.6
45°	660.8
47.5°	556.4
50°	482.9
52.5°	423.5
55°	375.7
57.5°	333.2
60°	302.2
62.5°	274.0
65°	242.8
67.5°	214.6
70°	183.6
72.5°	155.4
75°	129.9
77.5°	104.5
80°	79.0
82.5°	56.5
85°	33.9
87.5°	14.1
90°	0.0



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— 0°-180°







(END OF REPORT)