

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: P582535

Luminaire Tested: **HC640D010-HM63040935-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582535
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-HM63040935-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4100.6 lumens
Efficiency: N/A
Efficacy: 100.0 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

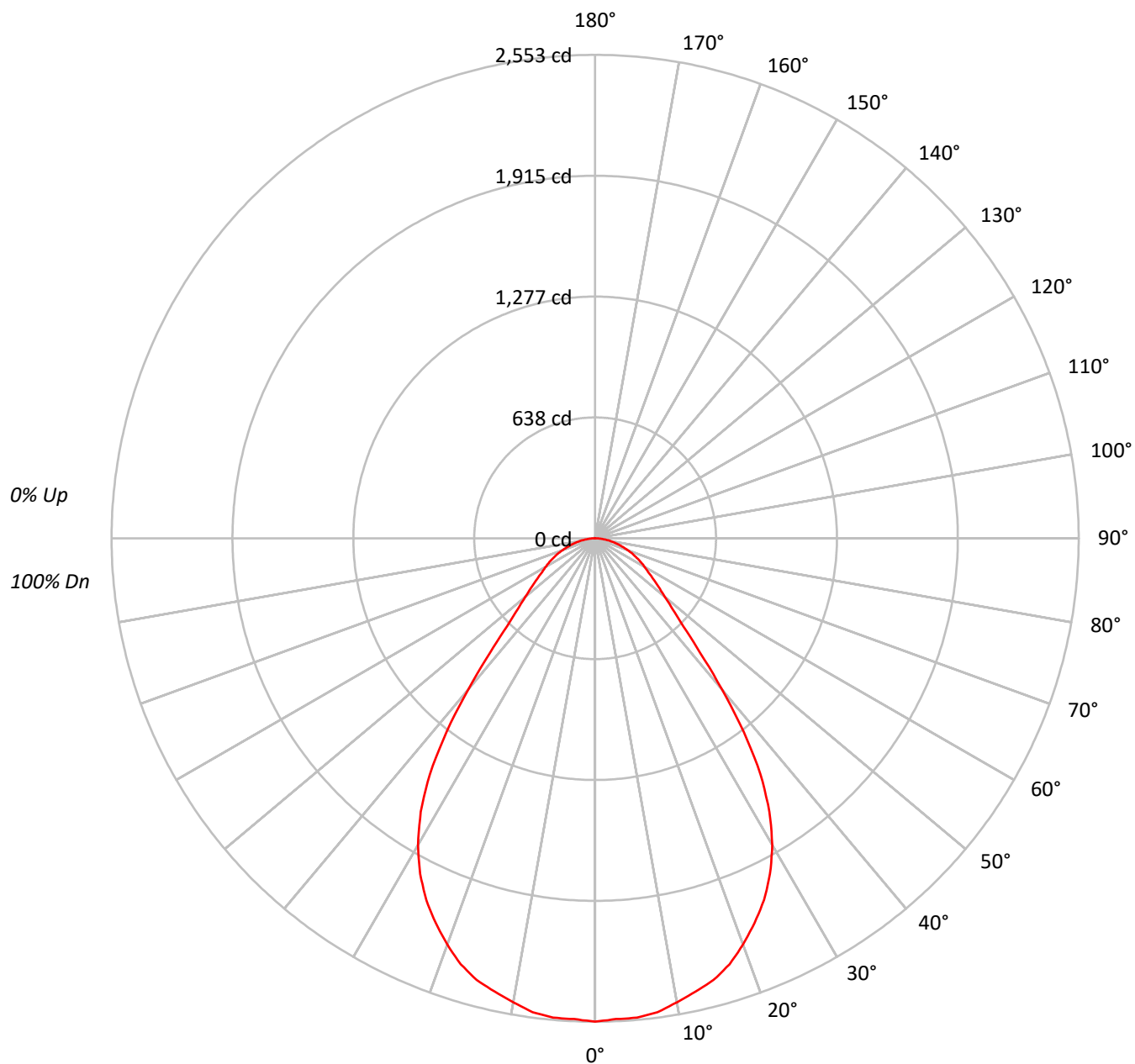
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	139939
5°	139852
10°	138497
15°	137067
20°	133192
25°	127562
30°	118385
35°	101857
40°	74354
45°	50943
50°	40954
55°	35698
60°	32947
65°	31326
70°	29252
75°	27345
80°	24814
85°	21134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	5.9
10°-20°	678.3	16.5
20°-30°	964.6	23.5
30°-40°	928.7	22.6
40°-50°	534.3	13.0
50°-60°	338.6	8.3
60°-70°	239.7	5.8
70°-80°	136.6	3.3
80°-90°	38.9	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°	1883.8	45.9
0°-40°	2812.5	68.6
0°-60°	3685.4	89.9
0°-90°	4100.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4100.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2553	
5°	2541	241
15°	2415	678
25°	2109	965
35°	1522	929
45°	657	534
55°	374	339
65°	242	240
75°	129	137
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2552.7
2.5°	2541.4
5°	2541.4
7.5°	2524.6
10°	2488.0
12.5°	2451.6
15°	2415.1
17.5°	2358.9
20°	2283.1
22.5°	2198.8
25°	2108.9
27.5°	1999.5
30°	1870.2
32.5°	1713.0
35°	1522.0
37.5°	1288.9
40°	1039.0
42.5°	820.0
45°	657.1
47.5°	553.2
50°	480.2
52.5°	421.3
55°	373.5
57.5°	331.3
60°	300.5
62.5°	272.4
65°	241.5
67.5°	213.4
70°	182.5
72.5°	154.5
75°	129.1
77.5°	103.9
80°	78.6
82.5°	56.2
85°	33.6
87.5°	14.0
90°	0.0



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— 0°-180°







(END OF REPORT)