

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: P582500

Luminaire Tested: **HC640D010-HM63040927-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040927-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3751.3 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

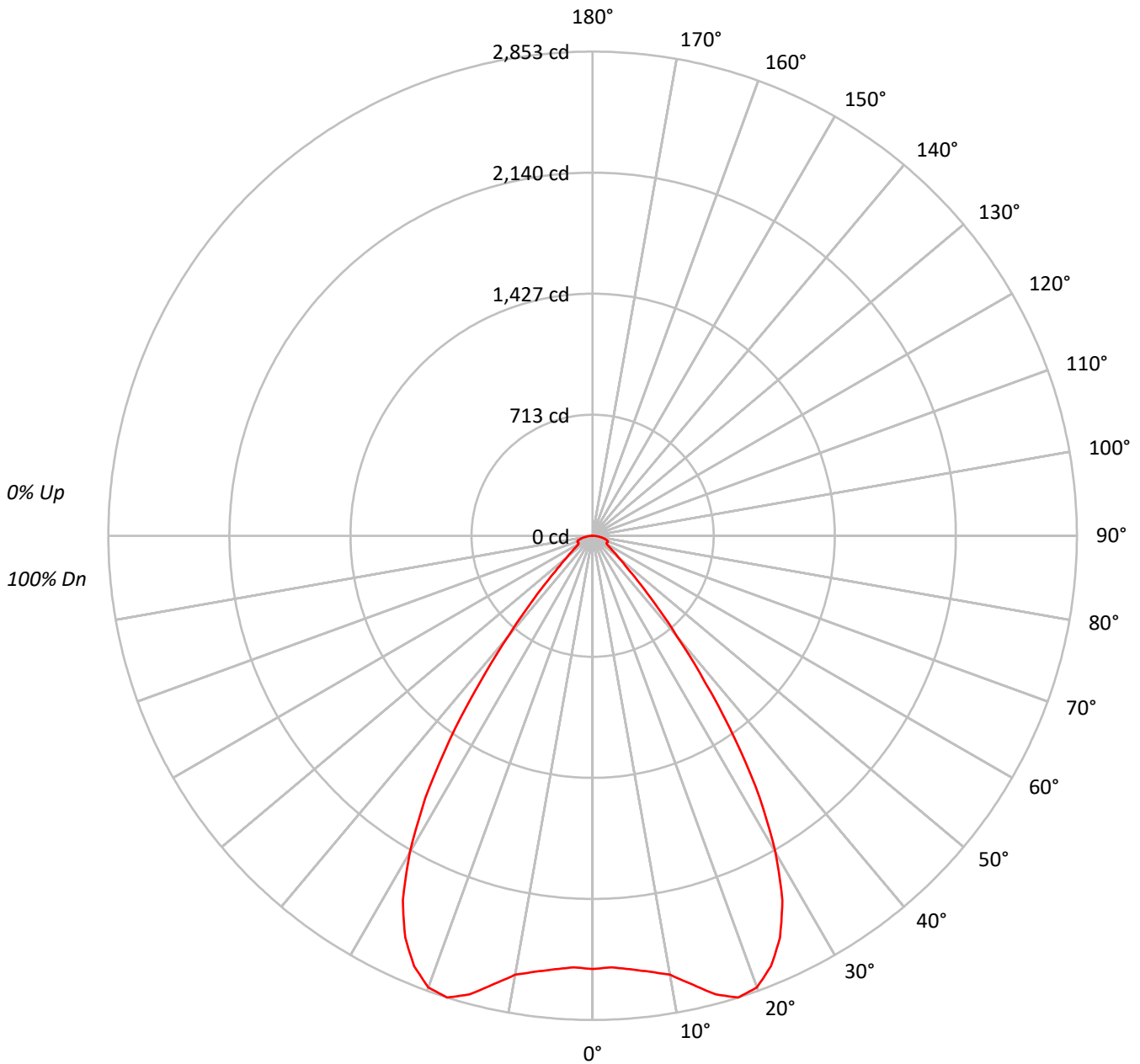
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	139918
5°	141101
10°	146184
15°	158792
20°	165179
25°	157987
30°	136344
35°	98176
40°	55304
45°	28662
50°	17091
55°	12320
60°	10460
65°	12064
70°	15291
75°	16182
80°	15816
85°	15033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.7	6.6
10°-20°	789.1	21.0
20°-30°	1179.5	31.4
30°-40°	901.6	24.0
40°-50°	314.9	8.4
50°-60°	120.1	3.2
60°-70°	94.1	2.5
70°-80°	79.6	2.1
80°-90°	25.6	0.7
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°	2215.4	59.1
0°-40°	3117.0	83.1
0°-60°	3552.0	94.7
0°-90°	3751.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3751.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2552	
5°	2564	247
15°	2798	789
25°	2612	1180
35°	1467	902
45°	370	315
55°	129	120
65°	93	94
75°	76	80
85°	24	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2552.3
2.5°	2545.1
5°	2564.1
7.5°	2590.4
10°	2626.1
12.5°	2707.2
15°	2797.9
17.5°	2852.7
20°	2831.4
22.5°	2745.5
25°	2611.9
27.5°	2421.0
30°	2153.9
32.5°	1834.3
35°	1467.0
37.5°	1087.6
40°	772.8
42.5°	541.4
45°	369.7
47.5°	260.0
50°	200.4
52.5°	157.5
55°	128.9
57.5°	105.0
60°	95.4
62.5°	93.0
65°	93.0
67.5°	97.7
70°	95.4
72.5°	88.2
75°	76.4
77.5°	64.4
80°	50.1
82.5°	35.7
85°	23.9
87.5°	9.5
90°	0.0



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— 0°-180°







(END OF REPORT)