

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: P582424

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040827-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3728.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

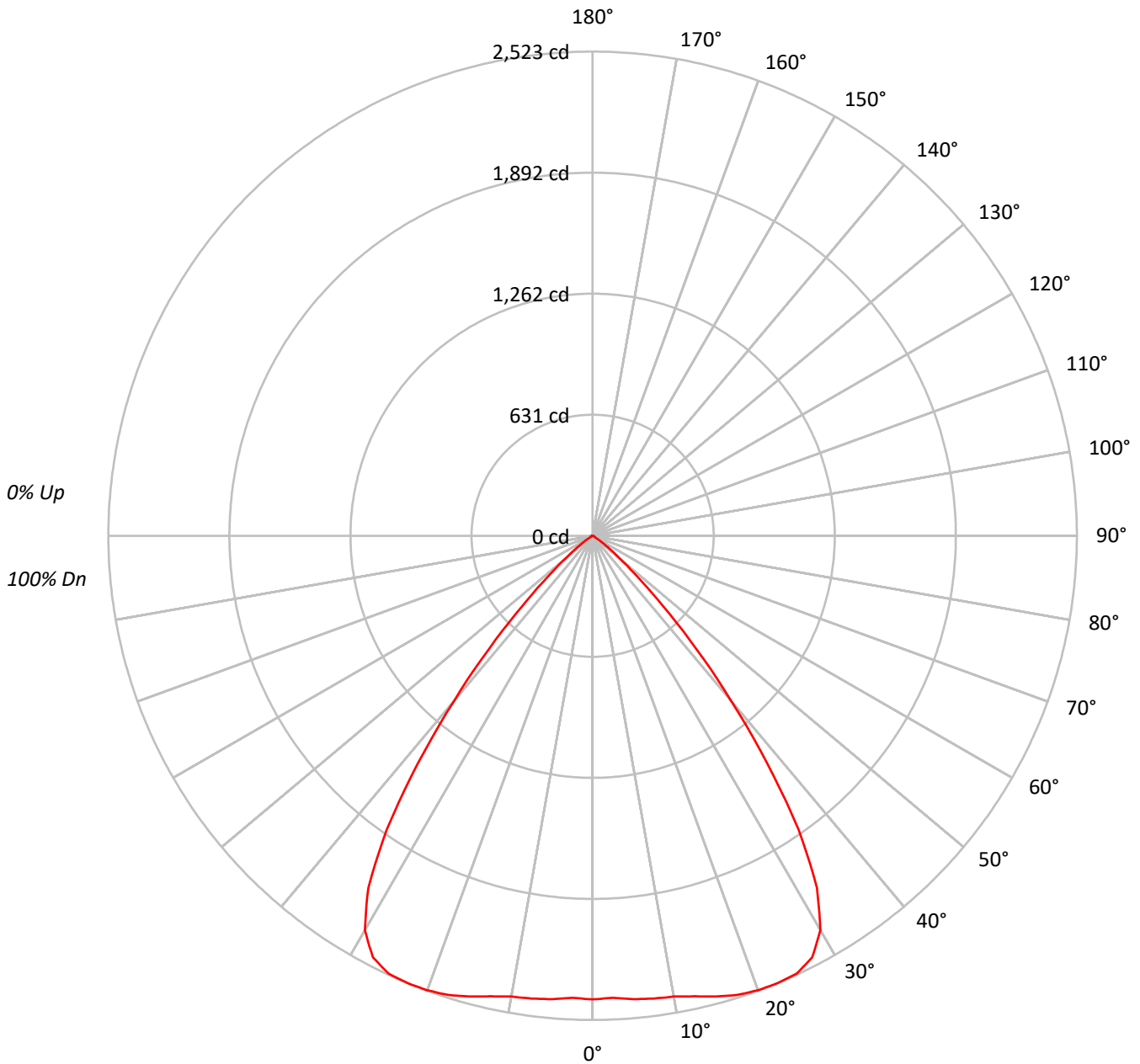
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92																
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85			85																
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77																
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71																
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65			65																
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59																
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54			54																
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50			50																
9	70	59	53	48	69	59	53	48	58	52	48	57	52	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°	132413
5°	133381
10°	135708
15°	141085
20°	147001
25°	152247
30°	150207
35°	125153
40°	80258
45°	40074
50°	15906
55°	5400
60°	1546
65°	1090
70°	914
75°	1207
80°	884
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	6.2
10°-20°	705.1	18.9
20°-30°	1151.3	30.9
30°-40°	1128.6	30.3
40°-50°	432.7	11.6
50°-60°	63.5	1.7
60°-70°	9.4	0.3
70°-80°	4.9	0.1
80°-90°	1.1	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°	2088.1	56.0
0°-40°	3216.7	86.3
0°-60°	3712.9	99.6
0°-90°	3728.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3728.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2415	
5°	2424	232
15°	2486	705
25°	2517	1151
35°	1870	1129
45°	517	433
55°	56	64
65°	8	9
75°	6	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2415.4
2.5°	2409.7
5°	2423.8
7.5°	2432.2
10°	2437.9
12.5°	2457.7
15°	2485.9
17.5°	2508.5
20°	2519.8
22.5°	2522.7
25°	2517.0
27.5°	2477.5
30°	2372.9
32.5°	2175.2
35°	1870.1
37.5°	1494.4
40°	1121.5
42.5°	799.4
45°	516.9
47.5°	316.4
50°	186.5
52.5°	107.4
55°	56.5
57.5°	25.5
60°	14.1
62.5°	11.3
65°	8.4
67.5°	8.4
70°	5.7
72.5°	5.7
75°	5.7
77.5°	2.8
80°	2.8
82.5°	2.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)