

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: P583220

Luminaire Tested: **HC660D010-HM64560927-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583220
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: HC660D010-HM64560927-61WDWB
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: 4612.2 lumens
Efficiency: N/A
Efficacy: 83.9 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

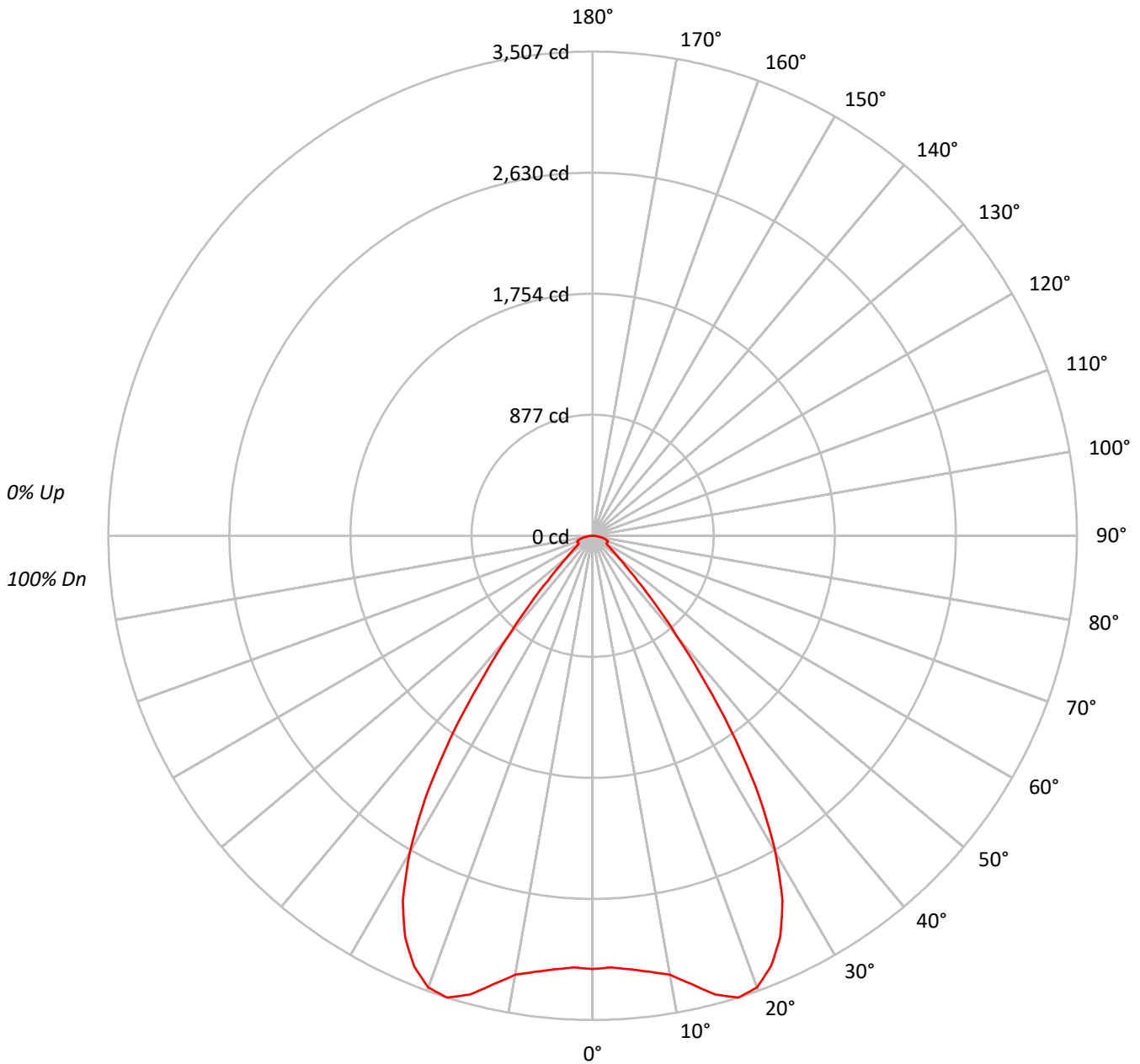
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	172020
5°	173486
10°	179739
15°	195234
20°	203076
25°	194237
30°	167633
35°	120702
40°	67999
45°	35244
50°	21006
55°	15139
60°	12861
65°	14826
70°	18801
75°	19868
80°	19415
85°	18429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	6.6
10°-20°	970.2	21.0
20°-30°	1450.2	31.4
30°-40°	1108.6	24.0
40°-50°	387.2	8.4
50°-60°	147.5	3.2
60°-70°	115.7	2.5
70°-80°	97.9	2.1
80°-90°	31.5	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°	2723.8	59.1
0°-40°	3832.4	83.1
0°-60°	4367.1	94.7
0°-90°	4612.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3138	
5°	3153	303
15°	3440	970
25°	3211	1450
35°	1804	1109
45°	455	387
55°	158	148
65°	114	116
75°	94	98
85°	29	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3137.9
2.5°	3129.2
5°	3152.6
7.5°	3184.8
10°	3228.9
12.5°	3328.6
15°	3440.0
17.5°	3507.4
20°	3481.0
22.5°	3375.5
25°	3211.2
27.5°	2976.7
30°	2648.2
32.5°	2255.3
35°	1803.6
37.5°	1337.3
40°	950.2
42.5°	665.7
45°	454.6
47.5°	319.6
50°	246.3
52.5°	193.5
55°	158.4
57.5°	129.1
60°	117.3
62.5°	114.3
65°	114.3
67.5°	120.2
70°	117.3
72.5°	108.5
75°	93.8
77.5°	79.2
80°	61.5
82.5°	44.0
85°	29.3
87.5°	11.8
90°	0.0



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— 0°-180°







(END OF REPORT)