

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: P583219

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583219
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: HC660D010-HM64560927-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4280.9 lumens
Efficiency: N/A
Efficacy: 77.8 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

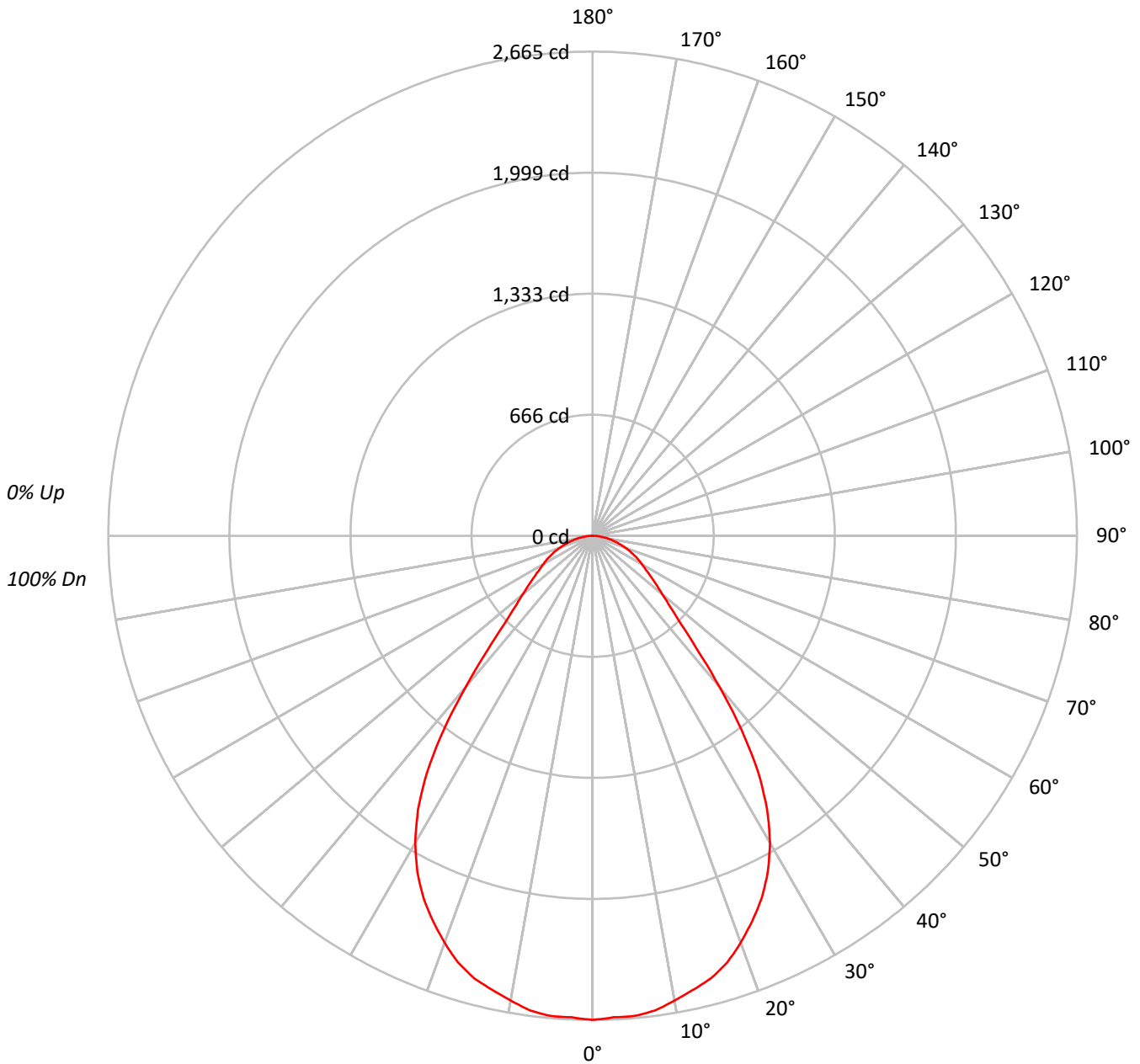
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	146085
5°	145999
10°	144587
15°	143088
20°	139044
25°	133169
30°	123595
35°	106341
40°	77624
45°	53184
50°	42753
55°	37265
60°	34394
65°	32701
70°	30534
75°	28573
80°	25919
85°	22140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	5.9
10°-20°	708.1	16.5
20°-30°	1007.0	23.5
30°-40°	969.5	22.6
40°-50°	557.8	13.0
50°-60°	353.4	8.3
60°-70°	250.2	5.8
70°-80°	142.6	3.3
80°-90°	40.7	1.0
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°	1966.6	45.9
0°-40°	2936.2	68.6
0°-60°	3847.4	89.9
0°-90°	4280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4280.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2665	
5°	2653	251
15°	2521	708
25°	2202	1007
35°	1589	970
45°	686	558
55°	390	353
65°	252	250
75°	135	143
85°	35	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2664.8
2.5°	2653.1
5°	2653.1
7.5°	2635.5
10°	2597.4
12.5°	2559.4
15°	2521.2
17.5°	2462.5
20°	2383.4
22.5°	2295.4
25°	2201.6
27.5°	2087.4
30°	1952.5
32.5°	1788.3
35°	1589.0
37.5°	1345.7
40°	1084.7
42.5°	856.0
45°	686.0
47.5°	577.6
50°	501.3
52.5°	439.7
55°	389.9
57.5°	345.9
60°	313.7
62.5°	284.3
65°	252.1
67.5°	222.8
70°	190.5
72.5°	161.2
75°	134.9
77.5°	108.5
80°	82.1
82.5°	58.7
85°	35.2
87.5°	14.6
90°	0.0



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— 0°-180°







(END OF REPORT)