

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: P583231

Luminaire Tested: **HC660D010-HM64560930-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560930-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4960.2 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

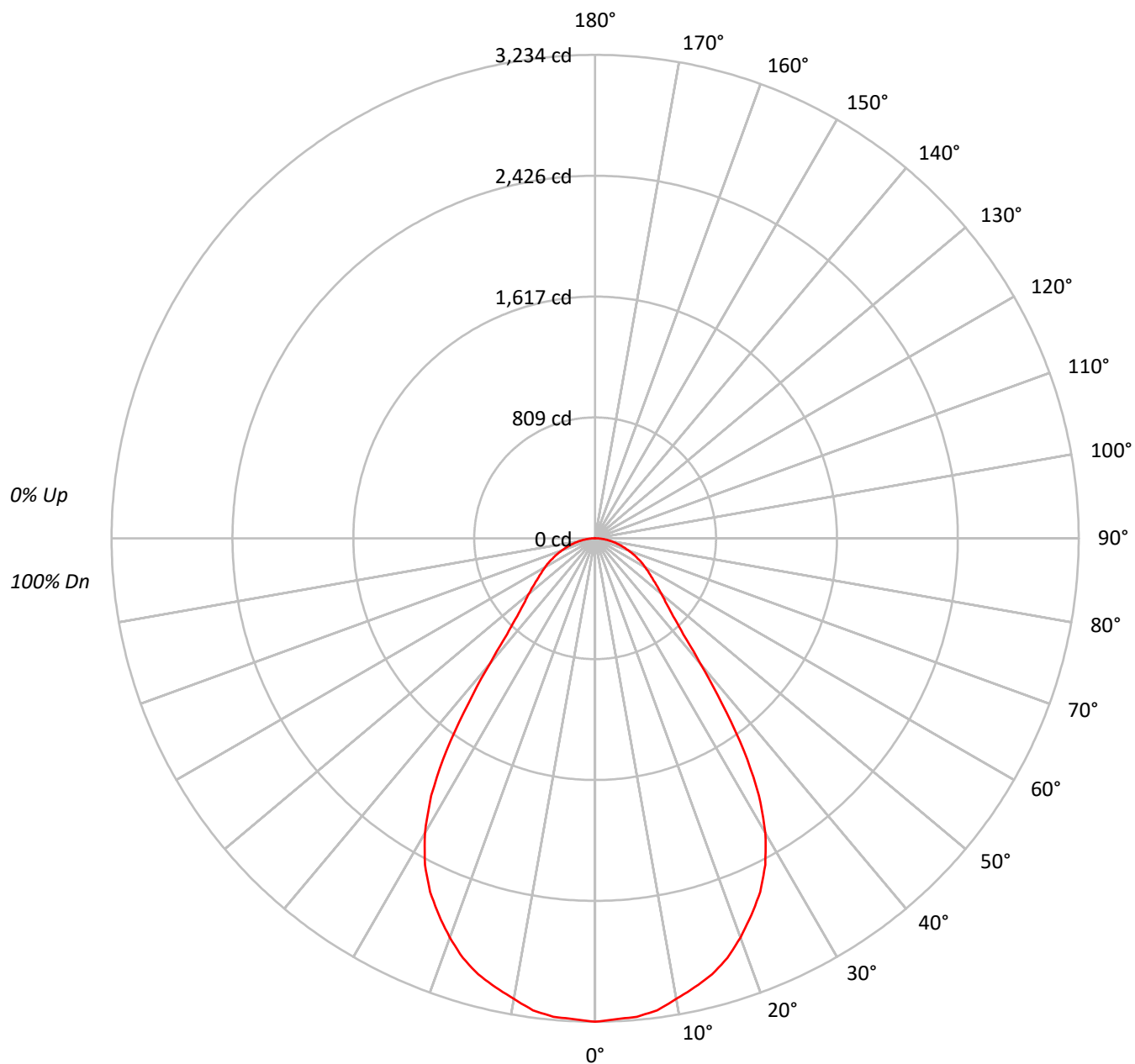
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	65	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	77	66	59	54	64	58	53	63	57	53	61	56	53	51		
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	177294
5°	176810
10°	174173
15°	171414
20°	165774
25°	157896
30°	144161
35°	116071
40°	78225
45°	57045
50°	49303
55°	44538
60°	42255
65°	39991
70°	37635
75°	35626
80°	33180
85°	30821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.1	6.1
10°-20°	848.2	17.1
20°-30°	1191.7	24.0
30°-40°	1060.7	21.4
40°-50°	592.8	12.0
50°-60°	422.3	8.5
60°-70°	307.2	6.2
70°-80°	177.9	3.6
80°-90°	55.3	1.1
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°	2343.9	47.3
0°-40°	3404.6	68.6
0°-60°	4419.8	89.1
0°-90°	4960.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4960.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3234	
5°	3213	304
15°	3020	848
25°	2610	1192
35°	1734	1061
45°	736	593
55°	466	422
65°	308	307
75°	168	178
85°	49	55
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3234.1
2.5°	3220.0
5°	3213.0
7.5°	3184.9
10°	3128.9
12.5°	3076.4
15°	3020.3
17.5°	2943.2
20°	2841.6
22.5°	2729.5
25°	2610.4
27.5°	2463.2
30°	2277.4
32.5°	2039.2
35°	1734.4
37.5°	1391.0
40°	1093.1
42.5°	872.5
45°	735.8
47.5°	644.7
50°	578.1
52.5°	518.6
55°	466.0
57.5°	424.0
60°	385.4
62.5°	350.3
65°	308.3
67.5°	273.3
70°	234.8
72.5°	199.7
75°	168.2
77.5°	136.6
80°	105.1
82.5°	77.1
85°	49.0
87.5°	24.5
90°	0.0



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— 0°-180°







(END OF REPORT)