

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: P593441

Luminaire Tested: **HC660D010-HM64560950-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593441
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-HM64560950-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5176.9 lumens
Efficiency: N/A
Efficacy: 94.1 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

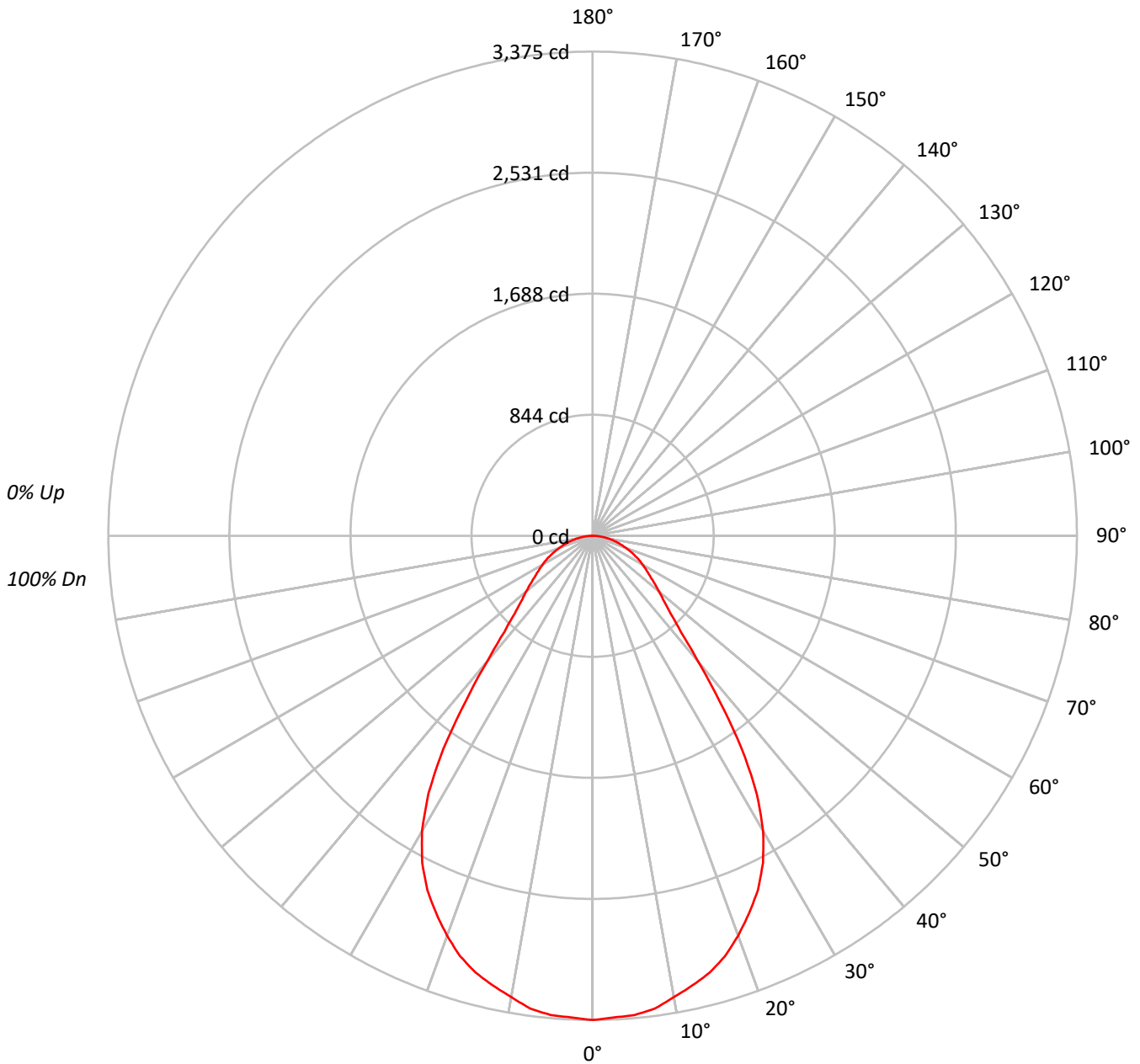
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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			
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°	185029
5°	184536
10°	181782
15°	178900
20°	173014
25°	164792
30°	150460
35°	121137
40°	81646
45°	59541
50°	51461
55°	46488
60°	44097
65°	41742
70°	39269
75°	37194
80°	34632
85°	32204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	6.1
10°-20°	885.2	17.1
20°-30°	1243.7	24.0
30°-40°	1107.1	21.4
40°-50°	618.7	12.0
50°-60°	440.8	8.5
60°-70°	320.7	6.2
70°-80°	185.7	3.6
80°-90°	57.7	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°	2446.3	47.3
0°-40°	3553.4	68.6
0°-60°	4612.8	89.1
0°-90°	5176.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5176.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3375	
5°	3353	317
15°	3152	885
25°	2724	1244
35°	1810	1107
45°	768	619
55°	486	441
65°	322	321
75°	176	186
85°	51	58
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3375.2
2.5°	3360.7
5°	3353.4
7.5°	3324.1
10°	3265.6
12.5°	3210.8
15°	3152.2
17.5°	3071.8
20°	2965.7
22.5°	2848.7
25°	2724.4
27.5°	2570.8
30°	2376.9
32.5°	2128.3
35°	1810.1
37.5°	1451.8
40°	1140.9
42.5°	910.6
45°	768.0
47.5°	672.8
50°	603.4
52.5°	541.2
55°	486.4
57.5°	442.5
60°	402.2
62.5°	365.6
65°	321.8
67.5°	285.2
70°	245.0
72.5°	208.5
75°	175.6
77.5°	142.6
80°	109.7
82.5°	80.4
85°	51.2
87.5°	25.6
90°	0.0



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— 0°-180°







(END OF REPORT)