

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: P593313

Luminaire Tested: **HC645D010-HM64560850-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560850-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4951.2 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

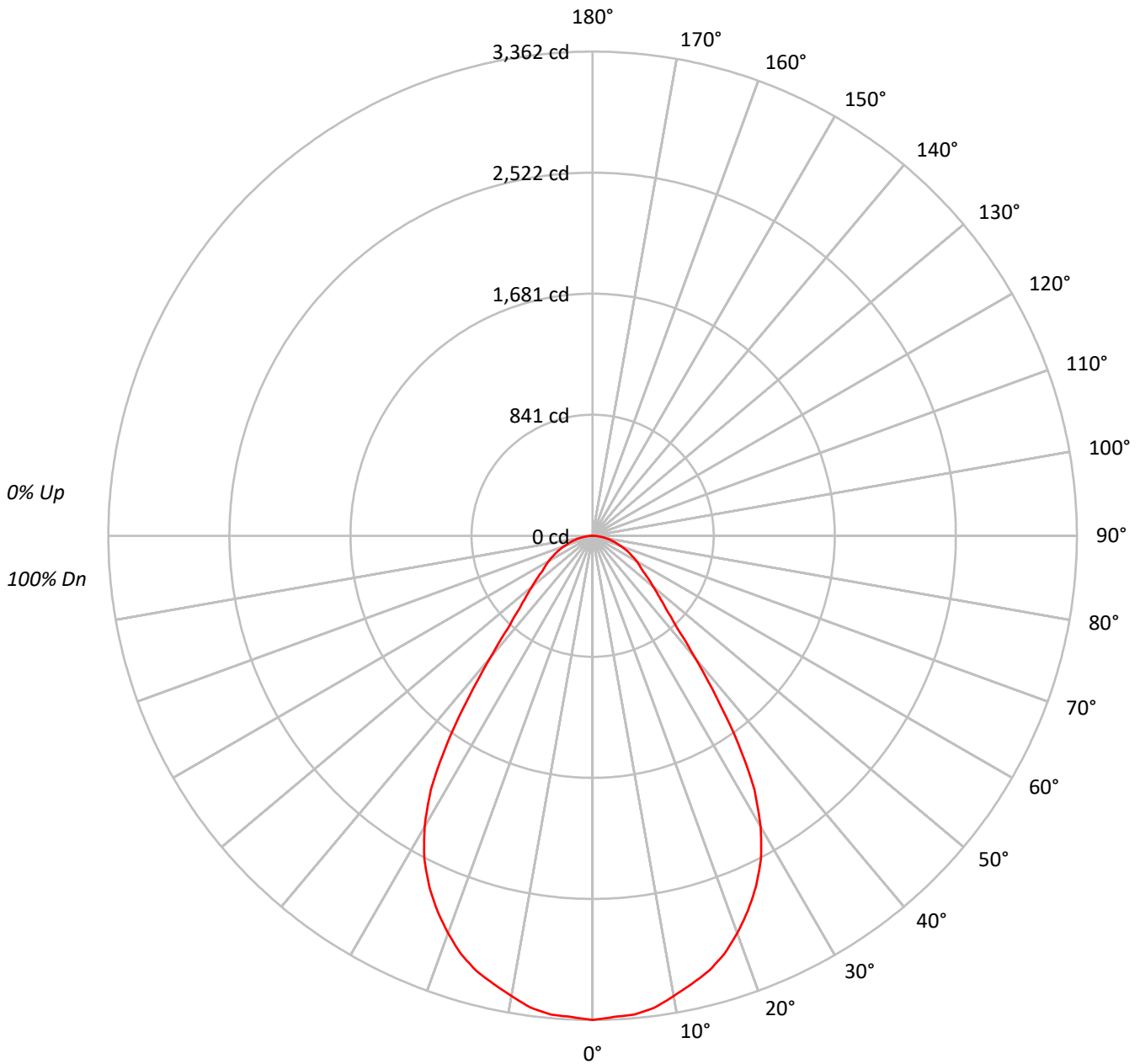
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	184322
5°	183645
10°	180574
15°	177396
20°	171264
25°	162396
30°	147706
35°	118026
40°	78748
45°	56138
50°	46770
55°	40763
60°	38517
65°	36268
70°	33323
75°	31136
80°	28286
85°	24782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	6.4
10°-20°	877.6	17.7
20°-30°	1226.4	24.8
30°-40°	1080.3	21.8
40°-50°	583.7	11.8
50°-60°	390.2	7.9
60°-70°	276.6	5.6
70°-80°	155.5	3.1
80°-90°	45.3	0.9
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°	2419.6	48.9
0°-40°	3500.0	70.7
0°-60°	4473.8	90.4
0°-90°	4951.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3362	
5°	3337	316
15°	3126	878
25°	2685	1226
35°	1764	1080
45°	724	584
55°	426	390
65°	280	277
75°	147	155
85°	39	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3362.3
2.5°	3344.3
5°	3337.2
7.5°	3304.9
10°	3243.9
12.5°	3186.6
15°	3125.7
17.5°	3043.2
20°	2935.7
22.5°	2817.4
25°	2684.8
27.5°	2530.6
30°	2333.4
32.5°	2089.7
35°	1763.6
37.5°	1408.7
40°	1100.4
42.5°	867.4
45°	724.1
47.5°	627.3
50°	548.4
52.5°	483.9
55°	426.5
57.5°	387.1
60°	351.3
62.5°	315.4
65°	279.6
67.5°	243.7
70°	207.9
72.5°	175.6
75°	147.0
77.5°	118.2
80°	89.6
82.5°	64.5
85°	39.4
87.5°	17.9
90°	0.0



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— 0°-180°







(END OF REPORT)