

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: P583047

Luminaire Tested: **HC655D010-HM64560840-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583047
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: HC655D010-HM64560840-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5488.6 lumens
Efficiency: N/A
Efficacy: 105.5 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

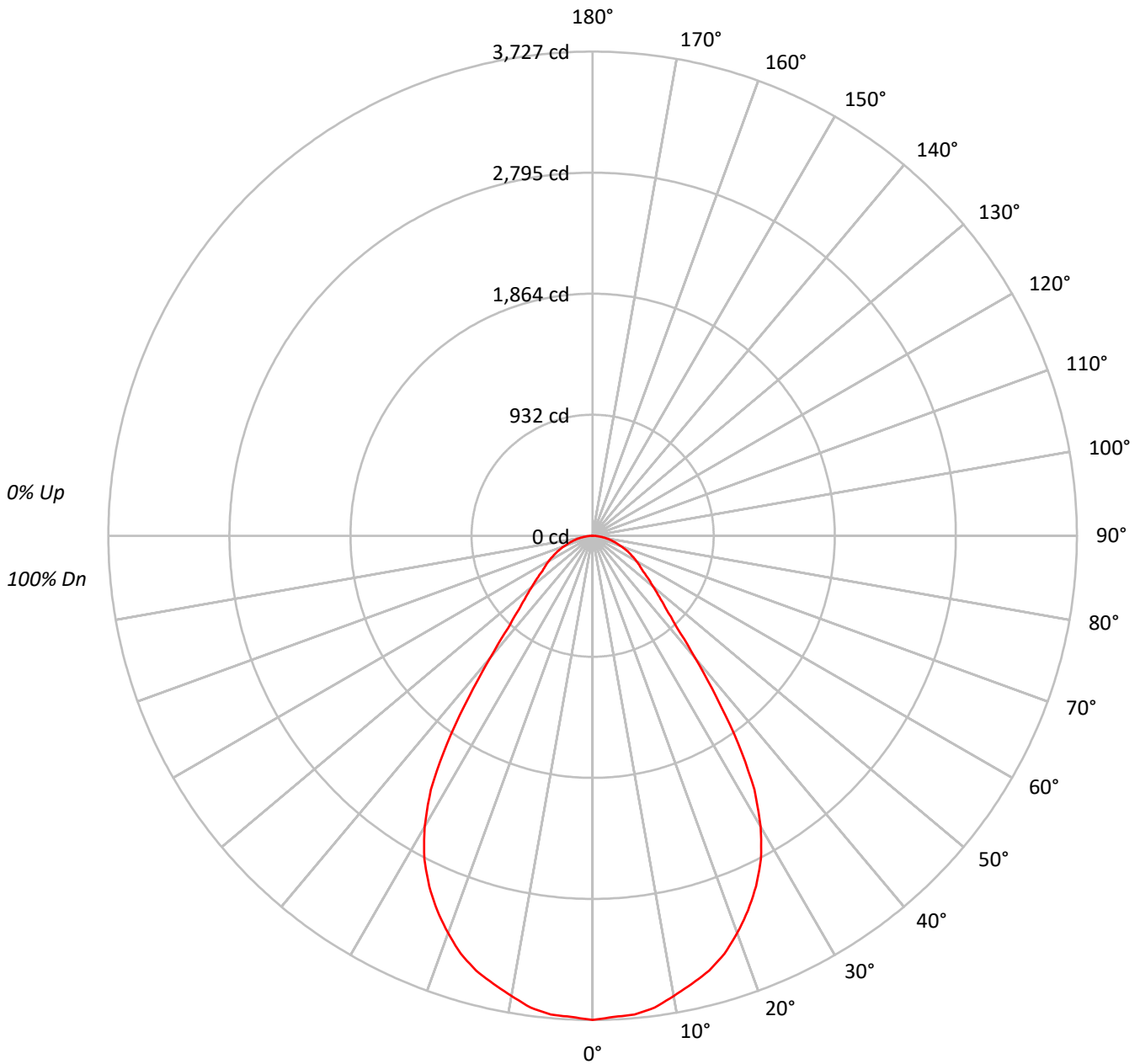
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583047

CATALOG NUMBER: HC655D010-HM64560840-61MDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	204315
5°	203565
10°	200163
15°	196641
20°	189845
25°	180016
30°	163734
35°	130828
40°	87292
45°	62231
50°	51845
55°	45188
60°	42694
65°	40199
70°	36929
75°	34504
80°	31380
85°	27487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	6.4
10°-20°	972.9	17.7
20°-30°	1359.5	24.8
30°-40°	1197.5	21.8
40°-50°	647.0	11.8
50°-60°	432.6	7.9
60°-70°	306.6	5.6
70°-80°	172.4	3.1
80°-90°	50.3	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°	2682.2	48.9
0°-40°	3879.7	70.7
0°-60°	4959.3	90.4
0°-90°	5488.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5488.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3727	
5°	3699	350
15°	3465	973
25°	2976	1359
35°	1955	1198
45°	803	647
55°	473	433
65°	310	307
75°	163	172
85°	44	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3727.0
2.5°	3707.2
5°	3699.2
7.5°	3663.4
10°	3595.8
12.5°	3532.3
15°	3464.8
17.5°	3373.4
20°	3254.2
22.5°	3123.1
25°	2976.1
27.5°	2805.2
30°	2586.6
32.5°	2316.4
35°	1954.9
37.5°	1561.6
40°	1219.8
42.5°	961.5
45°	802.7
47.5°	695.4
50°	607.9
52.5°	536.4
55°	472.8
57.5°	429.1
60°	389.4
62.5°	349.7
65°	309.9
67.5°	270.2
70°	230.4
72.5°	194.7
75°	162.9
77.5°	131.1
80°	99.4
82.5°	71.6
85°	43.7
87.5°	19.9
90°	0.0



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— 0°-180°







(END OF REPORT)