

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: P581844

Luminaire Tested: **HC620D010-HM60525827-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525827-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1821.8 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

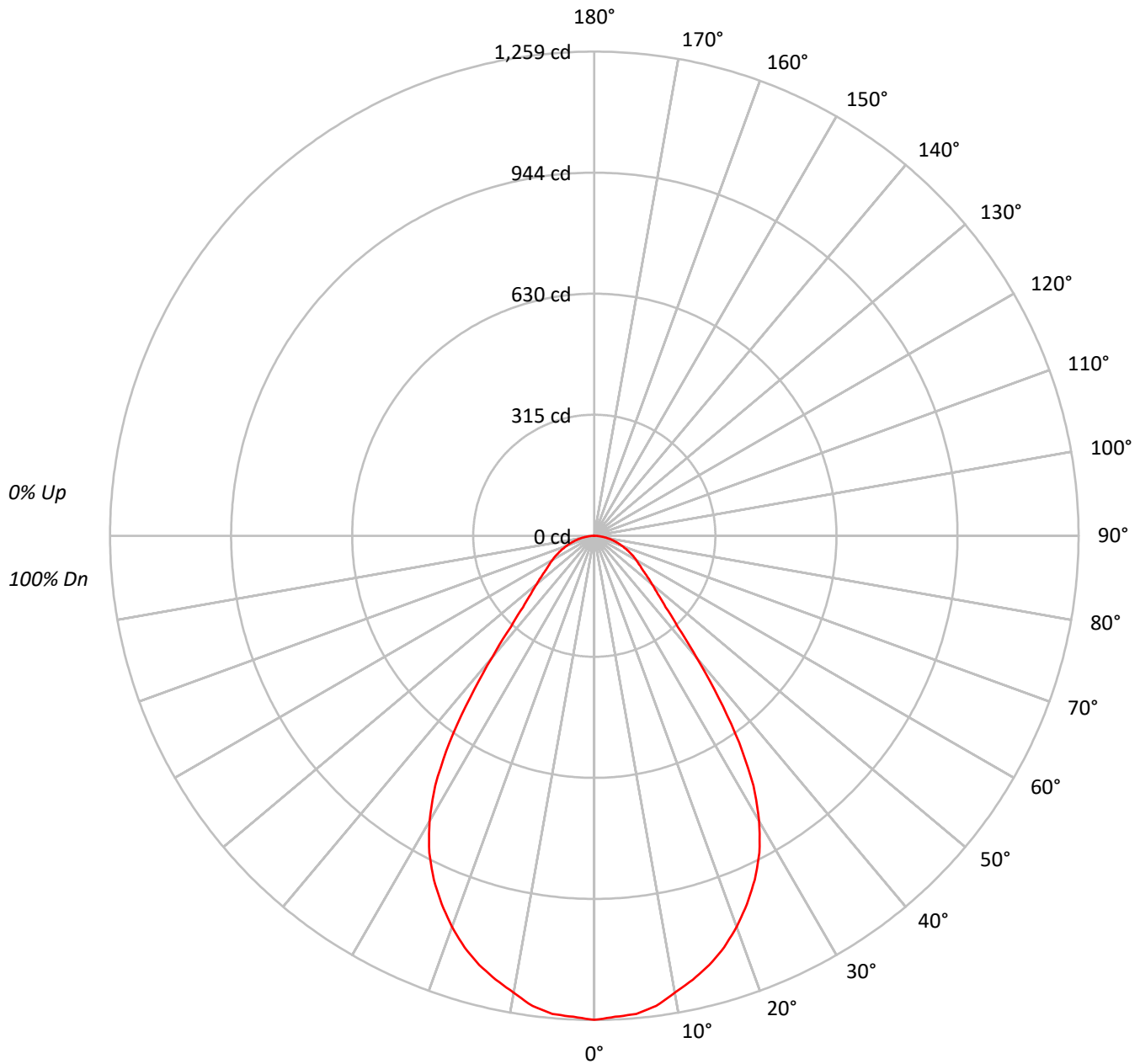
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581844

CATALOG NUMBER: HC620D010-HM60525827-61NDW

Luminous Intensity Polar Plot





TEST NUMBER: P581844

CATALOG NUMBER: HC620D010-HM60525827-61NDW

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	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	83	86	83	81	79		
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63		
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57		
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44		
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68997
5°	68677
10°	67155
15°	65579
20°	63116
25°	59689
30°	54249
35°	43908
40°	29613
45°	20343
50°	16665
55°	14585
60°	13804
65°	13023
70°	12246
75°	11649
80°	10544
85°	9246



TEST NUMBER: P581844

CATALOG NUMBER: HC620D010-HM60525827-61NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	6.5
10°-20°	324.5	17.8
20°-30°	450.8	24.7
30°-40°	401.4	22.0
40°-50°	213.1	11.7
50°-60°	139.3	7.6
60°-70°	99.9	5.5
70°-80°	57.9	3.2
80°-90°	16.9	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°	893.2	49.0
0°-40°	1294.6	71.1
0°-60°	1647.0	90.4
0°-90°	1821.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1259	
5°	1248	118
15°	1156	325
25°	987	451
35°	656	401
45°	262	213
55°	153	139
65°	100	100
75°	55	58
85°	15	17
90°	0	



TEST NUMBER: P581844

CATALOG NUMBER: HC620D010-HM60525827-61NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1258.6
2.5°	1252.0
5°	1248.0
7.5°	1233.3
10°	1206.4
12.5°	1182.3
15°	1155.5
17.5°	1122.1
20°	1081.9
22.5°	1036.4
25°	986.8
27.5°	929.3
30°	857.0
32.5°	769.9
35°	656.1
37.5°	530.2
40°	413.8
42.5°	321.3
45°	262.4
47.5°	223.7
50°	195.4
52.5°	172.8
55°	152.6
57.5°	137.9
60°	125.9
62.5°	113.9
65°	100.4
67.5°	88.4
70°	76.4
72.5°	65.6
75°	55.0
77.5°	44.2
80°	33.4
82.5°	24.1
85°	14.7
87.5°	6.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)