

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: P582131

Luminaire Tested: **HC630D010-HM63040827-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040827-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2972.5 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

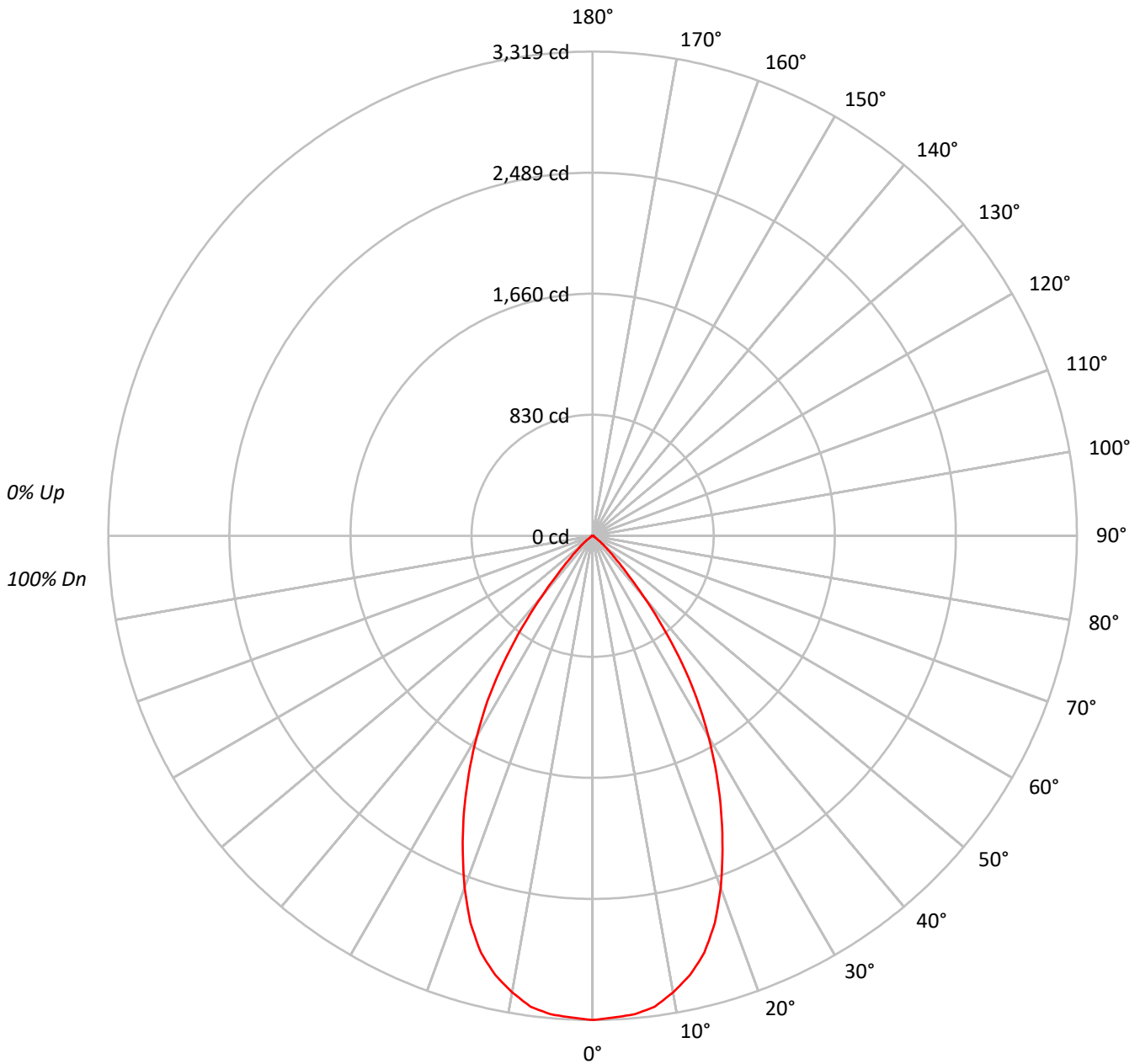
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582131

CATALOG NUMBER: HC630D010-HM63040827-61NDH

Luminous Intensity Polar Plot





TEST NUMBER: P582131

CATALOG NUMBER: HC630D010-HM63040827-61NDH

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	181965
5°	181196
10°	176906
15°	167924
20°	149679
25°	126092
30°	100458
35°	71668
40°	38536
45°	16506
50°	7514
55°	2743
60°	1338
65°	1064
70°	994
75°	424
80°	631
85°	0



TEST NUMBER: P582131

CATALOG NUMBER: HC630D010-HM63040827-61NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	10.5
10°-20°	820.2	27.6
20°-30°	950.0	32.0
30°-40°	656.8	22.1
40°-50°	189.7	6.4
50°-60°	32.7	1.1
60°-70°	8.3	0.3
70°-80°	3.2	0.1
80°-90°	0.8	0.0
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°	2080.9	70.0
0°-40°	2737.8	92.1
0°-60°	2960.1	99.6
0°-90°	2972.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3319	
5°	3293	311
15°	2959	820
25°	2085	950
35°	1071	657
45°	213	190
55°	29	33
65°	8	8
75°	2	3
85°	0	1
90°	0	



TEST NUMBER: P582131

CATALOG NUMBER: HC630D010-HM63040827-61NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3319.3
2.5°	3304.9
5°	3292.7
7.5°	3255.8
10°	3178.0
12.5°	3083.8
15°	2958.8
17.5°	2782.7
20°	2565.7
22.5°	2326.2
25°	2084.6
27.5°	1836.8
30°	1587.0
32.5°	1337.1
35°	1070.9
37.5°	794.5
40°	538.5
42.5°	339.9
45°	212.9
47.5°	137.2
50°	88.1
52.5°	53.3
55°	28.7
57.5°	16.4
60°	12.2
62.5°	10.2
65°	8.2
67.5°	6.2
70°	6.2
72.5°	4.0
75°	2.0
77.5°	2.0
80°	2.0
82.5°	2.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)