

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: P581916

Luminaire Tested: **HC620D010-HM60525927-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581916
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-HM60525927-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1538.6 lumens
Efficiency: N/A
Efficacy: 76.9 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

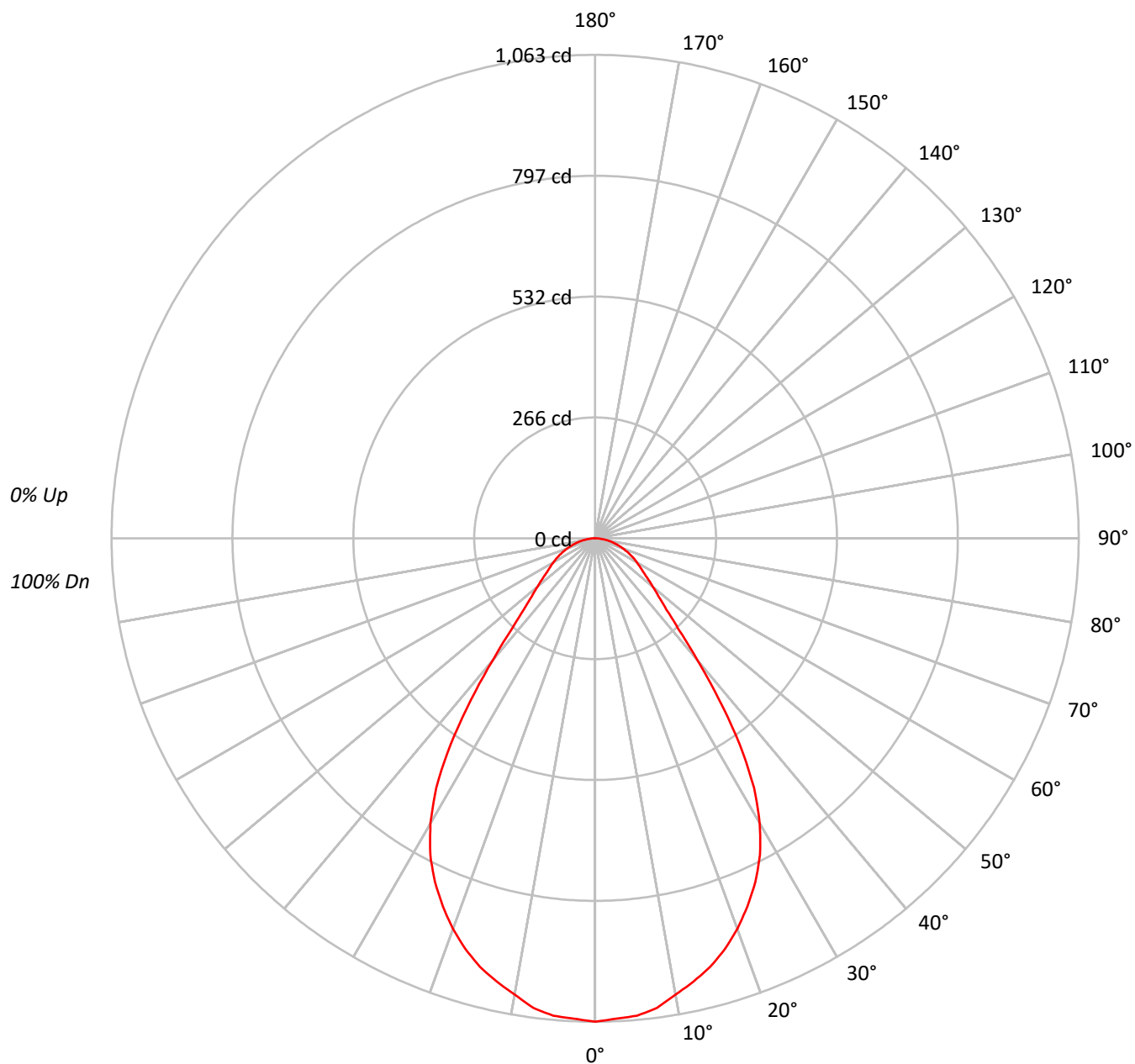
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	58274
5°	57996
10°	56718
15°	55386
20°	53304
25°	50410
30°	45817
35°	37089
40°	25004
45°	17180
50°	14081
55°	12320
60°	11655
65°	11013
70°	10338
75°	9807
80°	8934
85°	7862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	6.5
10°-20°	274.1	17.8
20°-30°	380.7	24.7
30°-40°	339.0	22.0
40°-50°	180.0	11.7
50°-60°	117.7	7.6
60°-70°	84.4	5.5
70°-80°	48.9	3.2
80°-90°	14.4	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°	754.3	49.0
0°-40°	1093.3	71.1
0°-60°	1391.0	90.4
0°-90°	1538.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1538.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1063	
5°	1054	99
15°	976	274
25°	833	381
35°	554	339
45°	222	180
55°	129	118
65°	85	84
75°	46	49
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1063.0
2.5°	1057.3
5°	1053.9
7.5°	1041.5
10°	1018.9
12.5°	998.5
15°	975.9
17.5°	947.6
20°	913.7
22.5°	875.2
25°	833.4
27.5°	784.8
30°	723.8
32.5°	650.2
35°	554.2
37.5°	447.8
40°	349.4
42.5°	271.4
45°	221.6
47.5°	188.9
50°	165.1
52.5°	145.9
55°	128.9
57.5°	116.5
60°	106.3
62.5°	96.1
65°	84.9
67.5°	74.7
70°	64.5
72.5°	55.4
75°	46.3
77.5°	37.3
80°	28.3
82.5°	20.4
85°	12.5
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)