

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: P581899

Luminaire Tested: **HC620D010-HM60525840-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525840-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2137.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

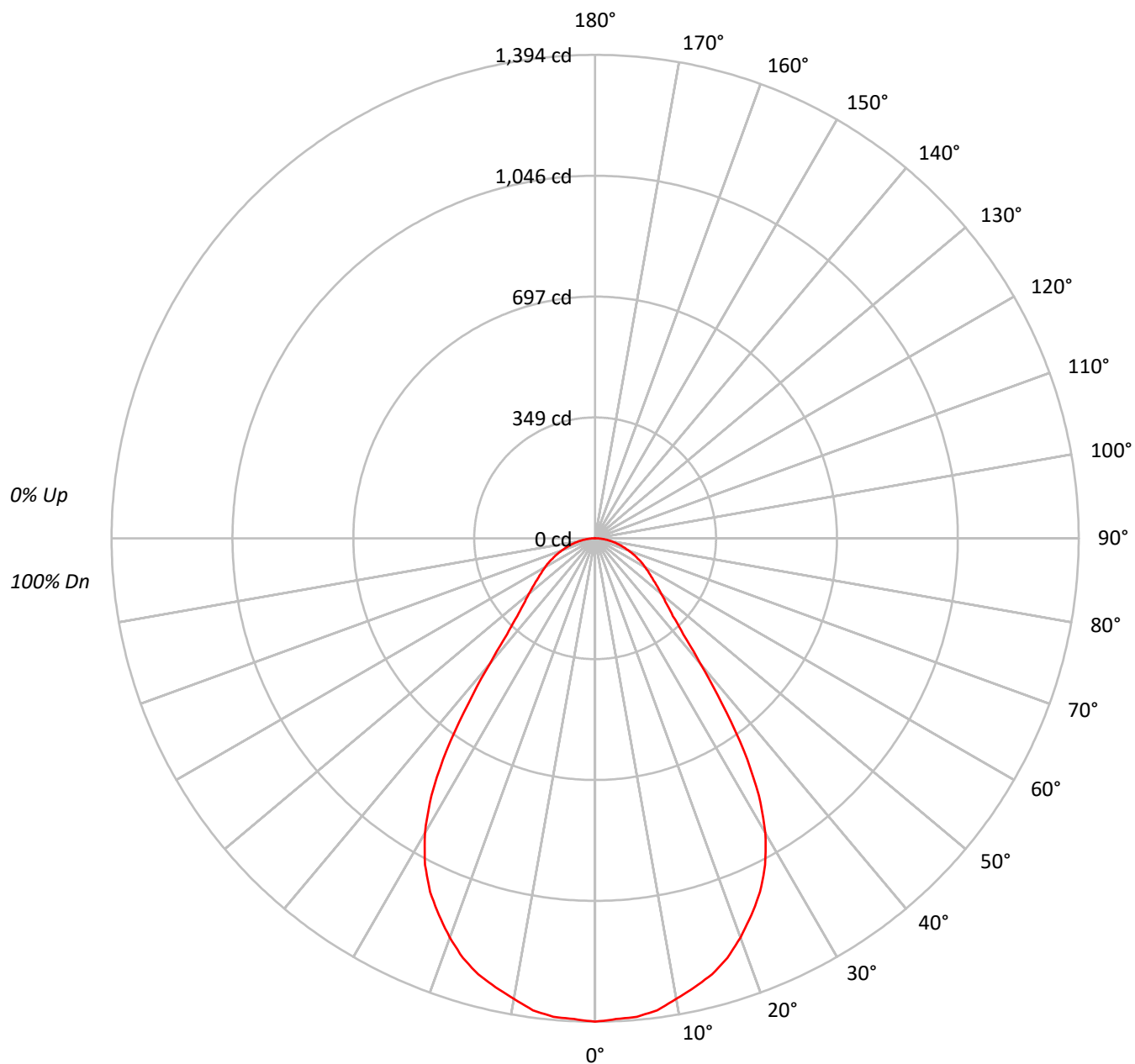
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	91	86	101	95	90	85		91	87	83			88	85	82			85
3	96	87	81	75	94	86	80	75		83	78	73			80	76	72			78
4	89	80	72	67	87	78	72	66		76	70	65			74	69	65			72
5	84	73	65	60	82	72	65	59		70	64	59			68	63	58			66
6	78	67	59	54	77	66	59	54		64	58	53			63	57	53			61
7	73	62	54	49	72	61	54	49		60	53	49			58	53	48			57
8	69	57	50	45	68	57	50	45		56	49	45			54	49	44			53
9	65	53	46	41	64	53	46	41		52	46	41			51	45	41			50
10	62	50	43	38	60	49	43	38		49	42	38			48	42	38			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76414
5°	76210
10°	75071
15°	73882
20°	71453
25°	68054
30°	62136
35°	50032
40°	33720
45°	24584
50°	21245
55°	19201
60°	18211
65°	17239
70°	16221
75°	15356
80°	14301
85°	13335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	6.1
10°-20°	365.6	17.1
20°-30°	513.6	24.0
30°-40°	457.2	21.4
40°-50°	255.5	12.0
50°-60°	182.0	8.5
60°-70°	132.4	6.2
70°-80°	76.7	3.6
80°-90°	23.8	1.1
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°	1010.2	47.3
0°-40°	1467.4	68.6
0°-60°	1905.0	89.1
0°-90°	2137.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1394	
5°	1385	131
15°	1302	366
25°	1125	514
35°	748	457
45°	317	255
55°	201	182
65°	133	132
75°	72	77
85°	21	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1393.9
2.5°	1387.8
5°	1384.9
7.5°	1372.7
10°	1348.6
12.5°	1325.9
15°	1301.8
17.5°	1268.5
20°	1224.8
22.5°	1176.4
25°	1125.1
27.5°	1061.6
30°	981.6
32.5°	878.9
35°	747.6
37.5°	599.6
40°	471.2
42.5°	376.0
45°	317.1
47.5°	277.9
50°	249.1
52.5°	223.5
55°	200.9
57.5°	182.8
60°	166.1
62.5°	151.0
65°	132.9
67.5°	117.8
70°	101.2
72.5°	86.1
75°	72.5
77.5°	58.9
80°	45.3
82.5°	33.2
85°	21.2
87.5°	10.5
90°	0.0



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— 0°-180°







(END OF REPORT)