

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: P582630

Luminaire Tested: **HC6R45D010-HM64560840-62RMDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC6R45D010-HM64560840-62RMDC
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5650.5 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

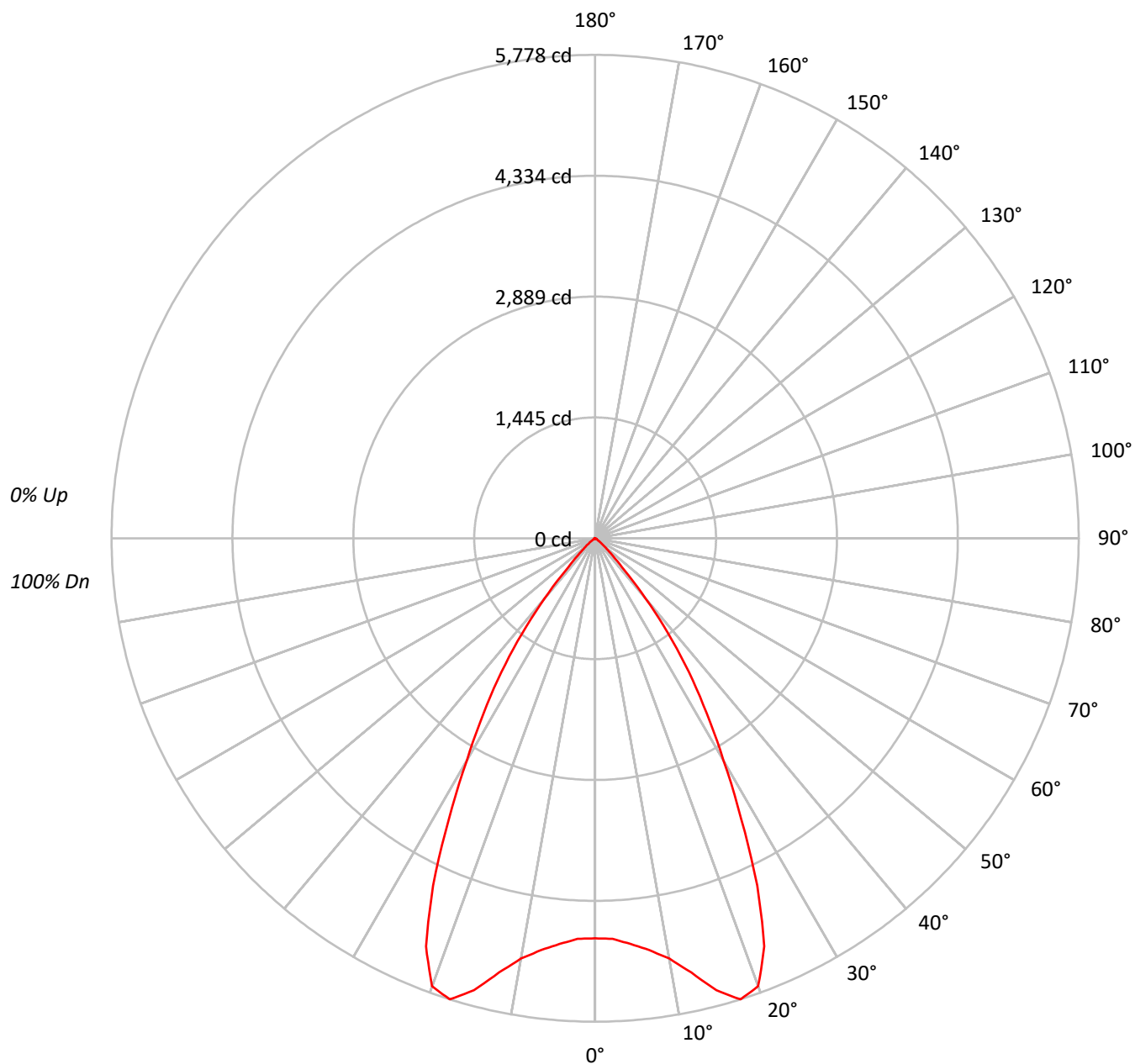
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104		105	103	101			101	99	98			97
2	108	103	99	96	106	101	98	95		98	95	92			95	93	91			92
3	102	96	91	87	100	95	90	86		92	88	85			90	86	84			87
4	97	90	84	80	95	89	83	79		86	82	79			84	81	78			83
5	92	84	78	74	91	83	77	73		81	76	73			79	75	72			78
6	88	79	73	68	86	78	72	68		76	71	68			75	71	67			74
7	83	74	68	64	82	73	67	63		72	67	63			71	66	63			70
8	79	69	63	59	78	69	63	59		68	63	59			67	62	59			66
9	75	65	59	55	74	65	59	55		64	59	55			63	58	55			62
10	72	62	56	52	71	61	56	52		60	55	52			60	55	52			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	262090
5°	267829
10°	283901
15°	317340
20°	332266
25°	277038
30°	193884
35°	130574
40°	67247
45°	23351
50°	10405
55°	3431
60°	1568
65°	1401
70°	1154
75°	763
80°	1137
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	8.3
10°-20°	1575.4	27.9
20°-30°	2047.5	36.2
30°-40°	1209.4	21.4
40°-50°	288.5	5.1
50°-60°	42.5	0.8
60°-70°	10.6	0.2
70°-80°	4.3	0.1
80°-90°	0.5	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°	4094.6	72.5
0°-40°	5304.1	93.9
0°-60°	5635.1	99.7
0°-90°	5650.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5650.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4781	
5°	4867	472
15°	5592	1575
25°	4580	2047
35°	1951	1209
45°	301	289
55°	36	43
65°	11	11
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4780.9
2.5°	4791.7
5°	4867.0
7.5°	4963.8
10°	5100.1
12.5°	5315.3
15°	5591.5
17.5°	5778.0
20°	5695.5
22.5°	5279.4
25°	4580.1
27.5°	3780.2
30°	3062.9
32.5°	2478.3
35°	1951.1
37.5°	1434.6
40°	939.7
42.5°	512.8
45°	301.2
47.5°	186.5
50°	122.0
52.5°	71.8
55°	35.9
57.5°	17.9
60°	14.3
62.5°	14.3
65°	10.8
67.5°	7.2
70°	7.2
72.5°	3.6
75°	3.6
77.5°	3.6
80°	3.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)