

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: P582688

Luminaire Tested: **HC645D010-HM64560940-61NDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560940-61NDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4817.9 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

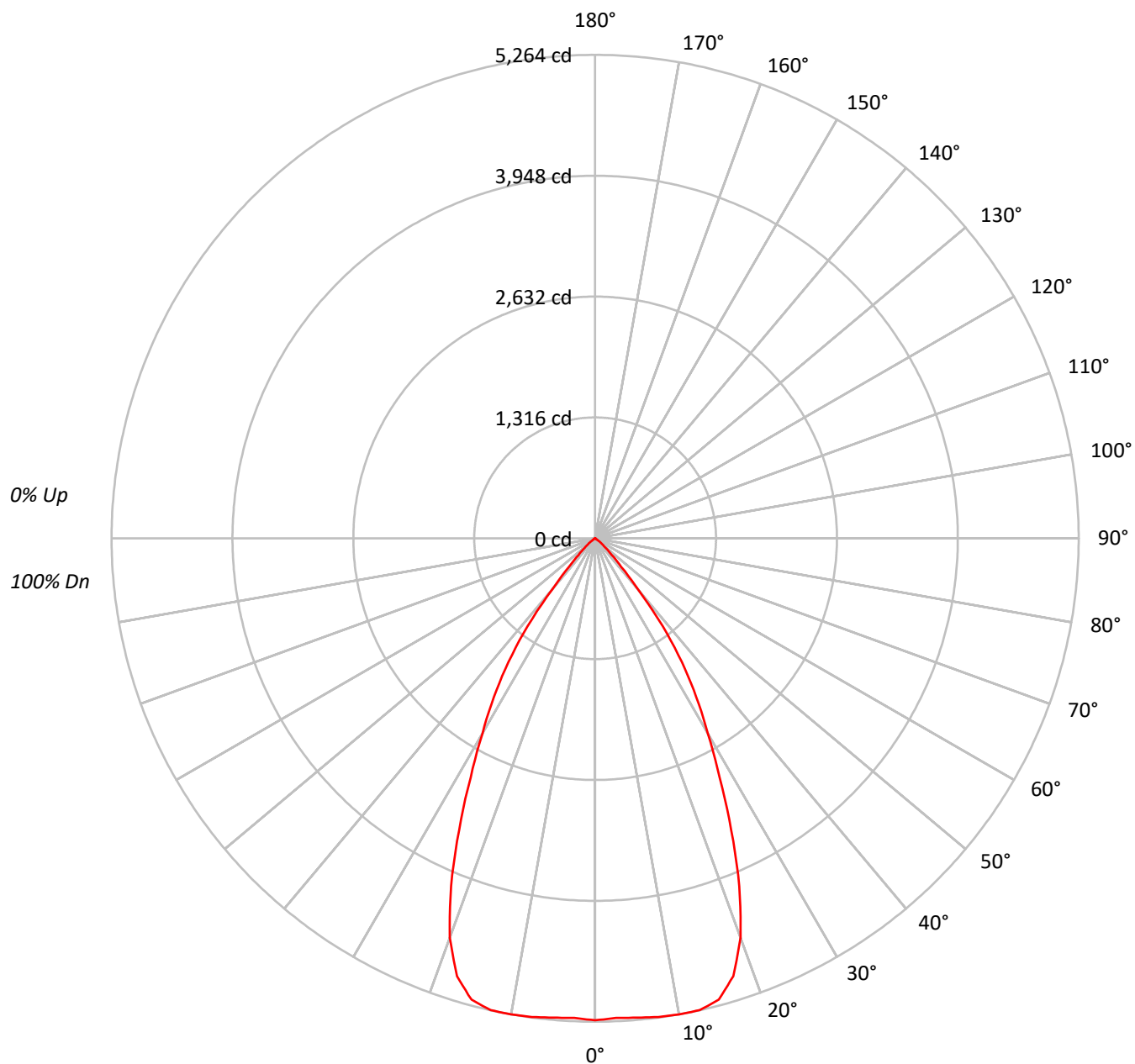
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	105		105	103	101			101	100	98			98
2	108	103	99	96	106	102	98	95		98	96	93			96	93	91			93
3	103	97	92	88	101	95	91	87		93	89	86			90	87	84			88
4	98	90	85	81	96	89	84	80		87	83	79			85	81	79			83
5	93	85	79	75	91	84	79	75		82	77	74			80	76	73			79
6	88	80	74	70	87	79	73	69		77	73	69			76	72	68			75
7	84	75	69	65	83	74	69	65		73	68	64			72	67	64			71
8	80	71	65	61	79	70	65	61		69	64	60			68	64	60			67
9	76	67	61	57	75	66	61	57		65	60	57			65	60	57			64
10	73	63	58	54	72	63	57	54		62	57	54			61	57	53			61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287724
5°	288305
10°	293042
15°	295183
20°	269833
25°	212032
30°	155201
35°	110095
40°	52069
45°	19870
50°	8904
55°	2418
60°	1042
65°	817
70°	513
75°	678
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.2	10.4
10°-20°	1437.5	29.8
20°-30°	1599.0	33.2
30°-40°	998.9	20.7
40°-50°	237.3	4.9
50°-60°	34.0	0.7
60°-70°	7.0	0.1
70°-80°	3.0	0.1
80°-90°	0.0	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°	3537.7	73.4
0°-40°	4536.6	94.2
0°-60°	4807.9	99.8
0°-90°	4817.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4817.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5248	
5°	5239	501
15°	5201	1438
25°	3505	1599
35°	1645	999
45°	256	237
55°	25	34
65°	6	7
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5248.5
2.5°	5226.4
5°	5239.1
7.5°	5258.0
10°	5264.3
12.5°	5261.1
15°	5201.1
17.5°	4998.6
20°	4625.3
22.5°	4100.1
25°	3505.4
27.5°	2935.9
30°	2451.8
32.5°	2050.1
35°	1645.1
37.5°	1208.5
40°	727.6
42.5°	420.8
45°	256.3
47.5°	164.5
50°	104.4
52.5°	60.1
55°	25.3
57.5°	12.7
60°	9.5
62.5°	9.5
65°	6.3
67.5°	6.3
70°	3.2
72.5°	3.2
75°	3.2
77.5°	3.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)