

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: P584144

Luminaire Tested: **HC825D010-HM82555835-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555835-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

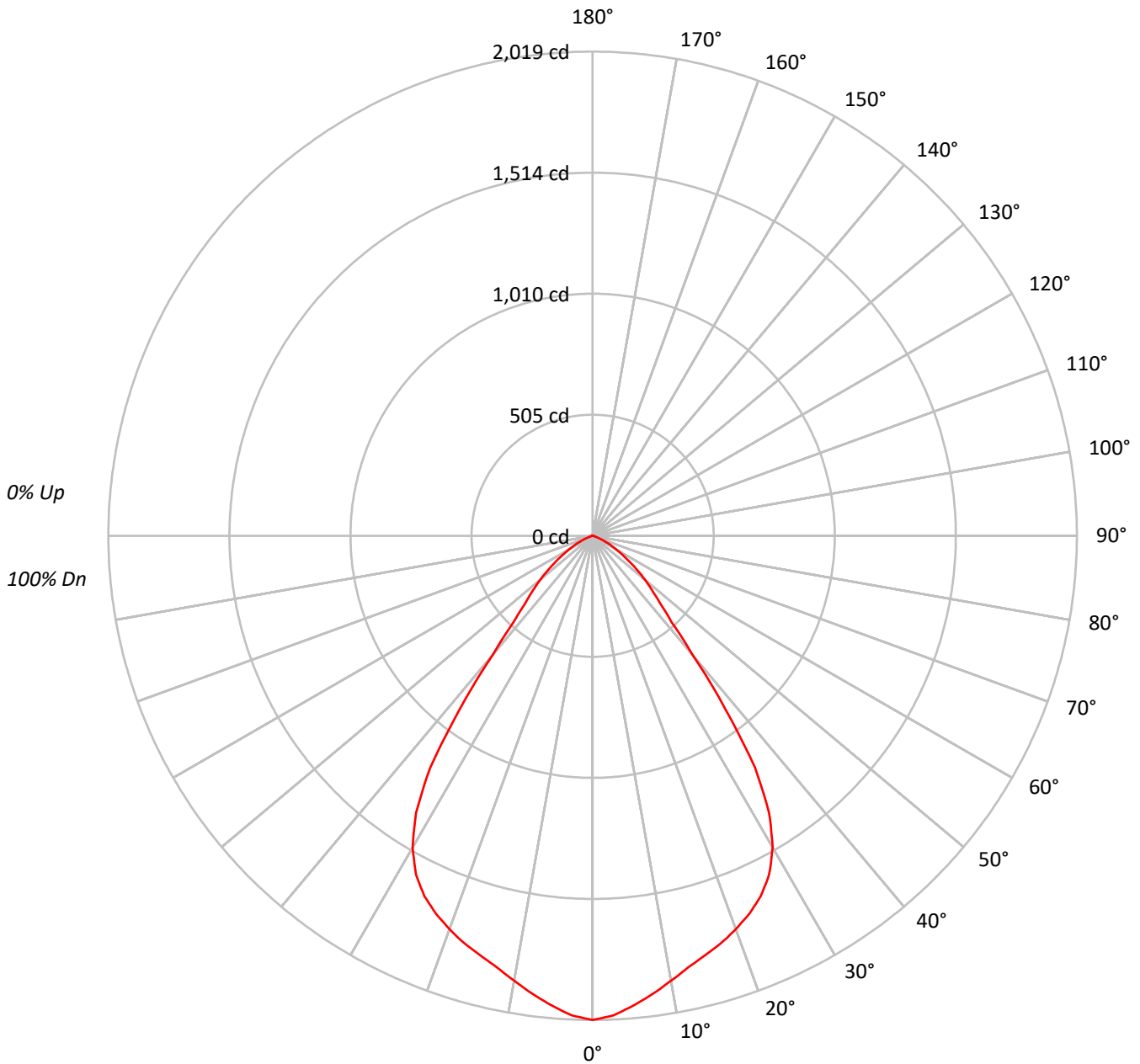
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62262
5°	60856
10°	58989
15°	57795
20°	57279
25°	56422
30°	53446
35°	44409
40°	26149
45°	17295
50°	13615
55°	10021
60°	6963
65°	4239
70°	1848
75°	810
80°	604
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	6.8
10°-20°	511.8	18.8
20°-30°	758.3	27.9
30°-40°	700.7	25.8
40°-50°	323.1	11.9
50°-60°	169.9	6.2
60°-70°	60.1	2.2
70°-80°	9.4	0.3
80°-90°	0.9	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°	1455.3	53.5
0°-40°	2156.0	79.3
0°-60°	2649.1	97.4
0°-90°	2719.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2019	
5°	1966	185
15°	1810	512
25°	1658	758
35°	1180	701
45°	397	323
55°	186	170
65°	58	60
75°	7	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2019.1
2.5°	2002.0
5°	1966.0
7.5°	1926.7
10°	1883.9
12.5°	1843.0
15°	1810.4
17.5°	1781.4
20°	1745.5
22.5°	1706.2
25°	1658.3
27.5°	1593.3
30°	1501.0
32.5°	1369.4
35°	1179.7
37.5°	906.1
40°	649.6
42.5°	487.3
45°	396.6
47.5°	336.8
50°	283.8
52.5°	232.5
55°	186.4
57.5°	147.0
60°	112.9
62.5°	85.5
65°	58.1
67.5°	34.2
70°	20.5
72.5°	12.0
75°	6.8
77.5°	5.1
80°	3.4
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)