

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: P584188

Luminaire Tested: **HC825D010-HM82555930-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555930-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2146.7 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

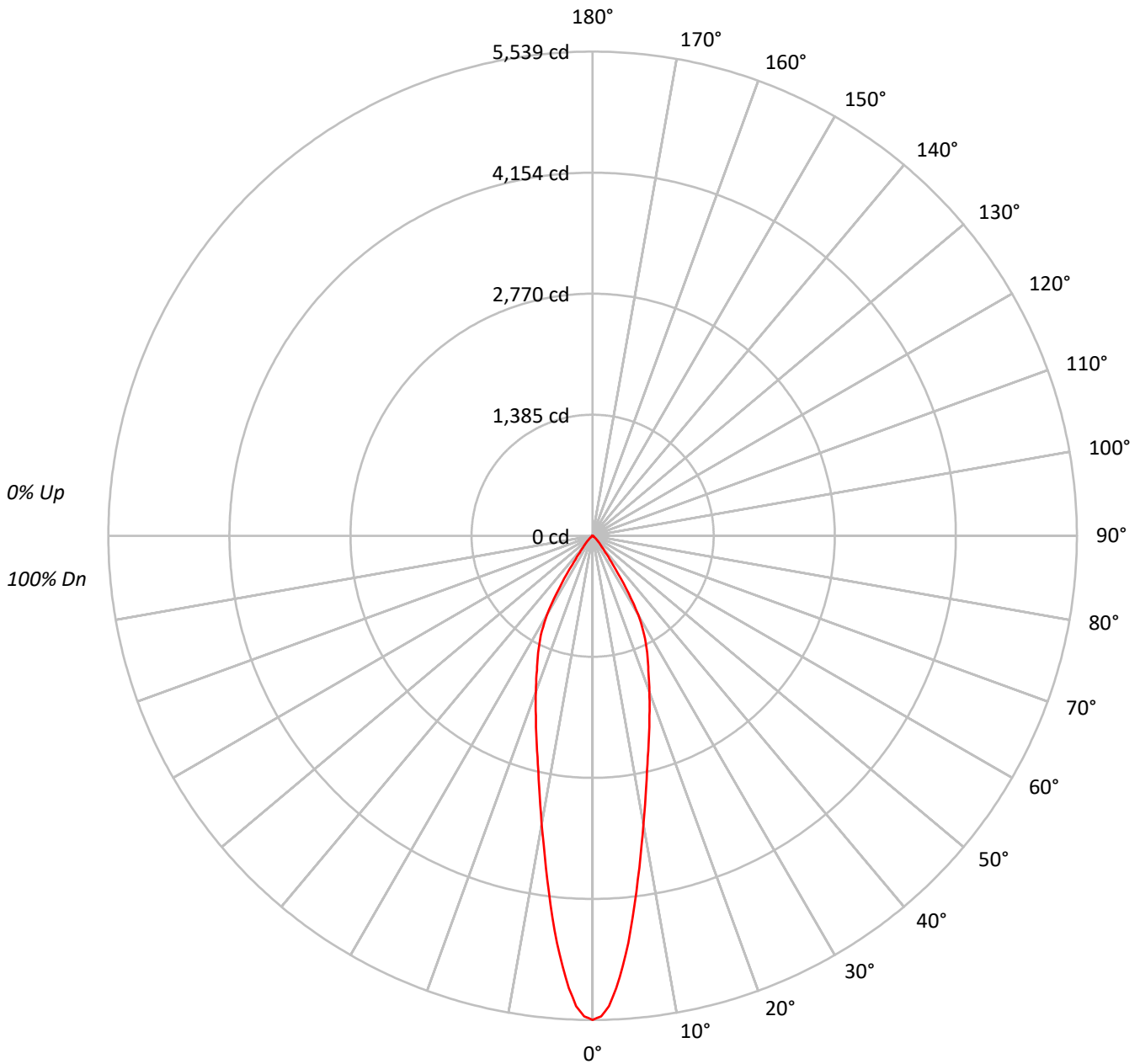
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	170815
5°	144717
10°	104999
15°	78853
20°	62215
25°	50186
30°	37188
35°	15065
40°	6352
45°	3406
50°	1530
55°	769
60°	493
65°	350
70°	289
75°	191
80°	284
85°	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.4	18.7
10°-20°	693.7	32.3
20°-30°	670.7	31.2
30°-40°	294.6	13.7
40°-50°	63.7	3.0
50°-60°	14.3	0.7
60°-70°	4.9	0.2
70°-80°	1.9	0.1
80°-90°	1.5	0.1
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°	1765.9	82.3
0°-40°	2060.4	96.0
0°-60°	2138.4	99.6
0°-90°	2146.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2146.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5539	
5°	4675	401
15°	2470	694
25°	1475	671
35°	400	295
45°	78	64
55°	14	14
65°	5	5
75°	2	2
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5539.4
1°	5498.0
2°	5384.8
3°	5180.6
4°	4936.7
5°	4675.2
6°	4389.8
7°	4102.7
8°	3833.3
9°	3582.9
10°	3353.3
11°	3136.5
12°	2942.0
13°	2764.9
14°	2608.7
15°	2470.0
17.5°	2159.0
20°	1895.9
22.5°	1664.7
25°	1475.0
27.5°	1282.0
30°	1044.4
32.5°	709.5
35°	400.2
37.5°	236.0
40°	157.8
42.5°	111.6
45°	78.1
47.5°	51.0
50°	31.9
52.5°	19.2
55°	14.3
57.5°	11.1
60°	8.0
62.5°	6.4
65°	4.8
67.5°	3.2
70°	3.2
72.5°	1.6
75°	1.6
77.5°	1.6
80°	1.6
82.5°	1.6



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	1.6
87.5°	1.6



(END OF REPORT)