

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: P585309

Luminaire Tested: **HC880D010-HM86080940-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080940-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" 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: 6758.4 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

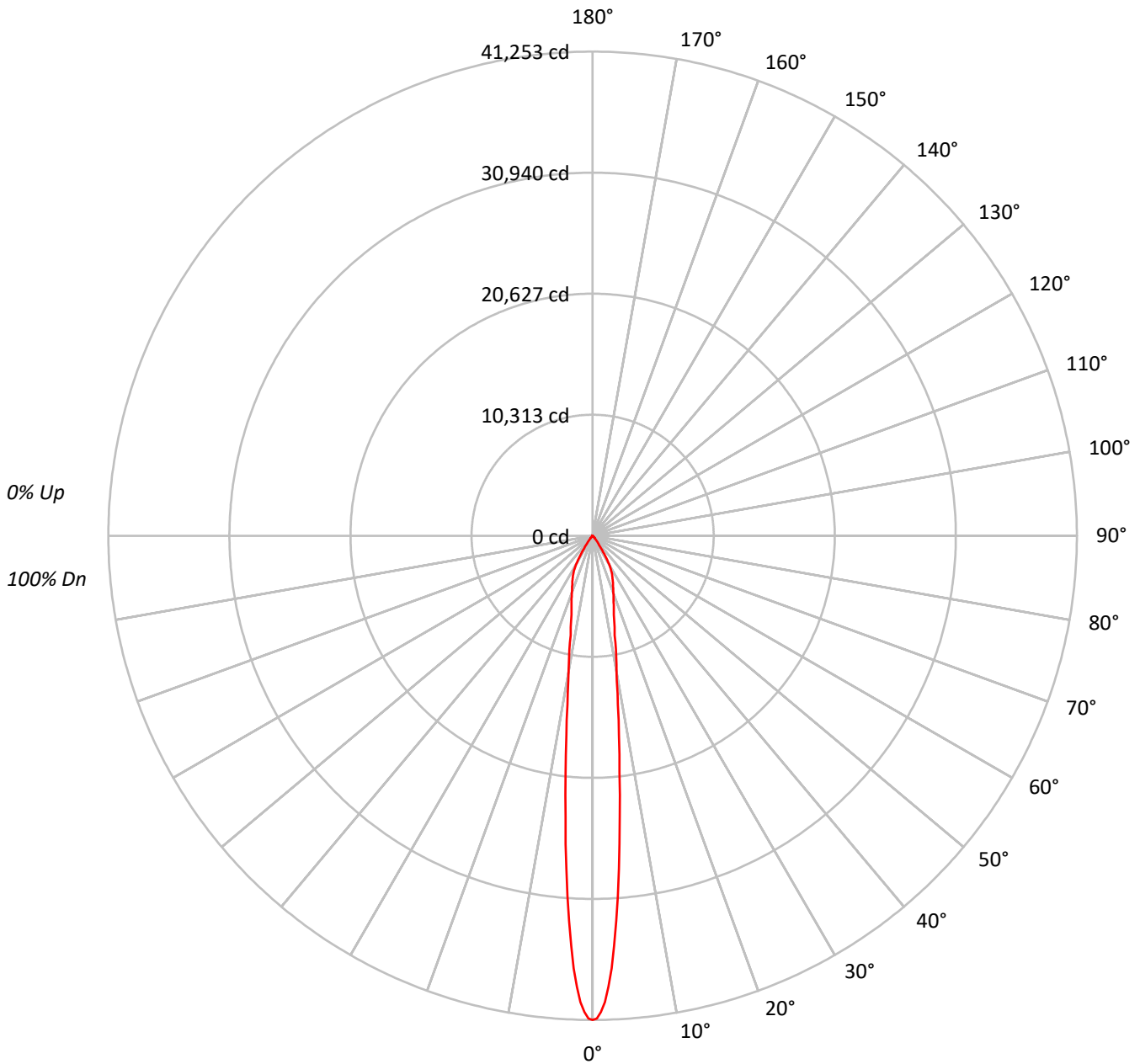
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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															
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96				96															
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91				91															
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87				87															
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83				83															
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80				80															
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76				76															
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73				73															
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71				71															
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68				68															
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66				66															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1272097
5°	815950
10°	368596
15°	222402
20°	169481
25°	136862
30°	100290
35°	36312
40°	13554
45°	6149
50°	1962
55°	495
60°	278
65°	328
70°	0
75°	0
80°	799
85°	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2010.4	29.7
10°-20°	2042.0	30.2
20°-30°	1828.0	27.0
30°-40°	736.3	10.9
40°-50°	120.7	1.8
50°-60°	11.0	0.2
60°-70°	3.9	0.1
70°-80°	3.0	0.0
80°-90°	4.3	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°	5880.4	87.0
0°-40°	6616.7	97.9
0°-60°	6748.4	99.9
0°-90°	6759.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6758.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	41253	
5°	26360	###
15°	6967	2042
25°	4022	1828
35°	965	736
45°	141	121
55°	9	11
65°	4	4
75°	0	3
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	41253.2
0.5°	41125.7
1°	40593.4
1.5°	39737.9
2°	38441.1
2.5°	36907.6
3°	34987.4
3.5°	32880.6
4°	30796.5
4.5°	28462.3
5°	26360.0
5.5°	24071.2
6°	22214.7
6.5°	20280.8
7°	18761.0
7.5°	17154.7
8°	15862.4
8.5°	14565.6
9°	13591.8
9.5°	12517.9
10°	11771.7
12.5°	8682.0
15°	6966.6
17.5°	5951.8
20°	5164.7
22.5°	4536.6
25°	4022.5
27.5°	3508.3
30°	2816.6
32.5°	1811.1
35°	964.6
37.5°	532.4
40°	336.7
42.5°	222.9
45°	141.0
47.5°	86.4
50°	40.9
52.5°	13.7
55°	9.2
57.5°	4.5
60°	4.5
62.5°	4.5
65°	4.5



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	4.5
80°	4.5
82.5°	4.5
85°	4.5
87.5°	4.5
90°	0.0



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— 0°-180°







67.5°		4.5
70°		0.0



(END OF REPORT)