

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

Report Number: 267p118

Luminaire Tested: **H280E-18TTT-425P**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 267p118  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H280E-18TTT-425P  
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 18CF WALLWASH WITH BLACK  
BAFFLE REFLECTOR  
Light Source: ONE - F18TBX/SPX27 - 1200 LUMENS - 18 WATTS  
Ballast/Driver: RCF-2S18-M1-LS-QS

**Summary**

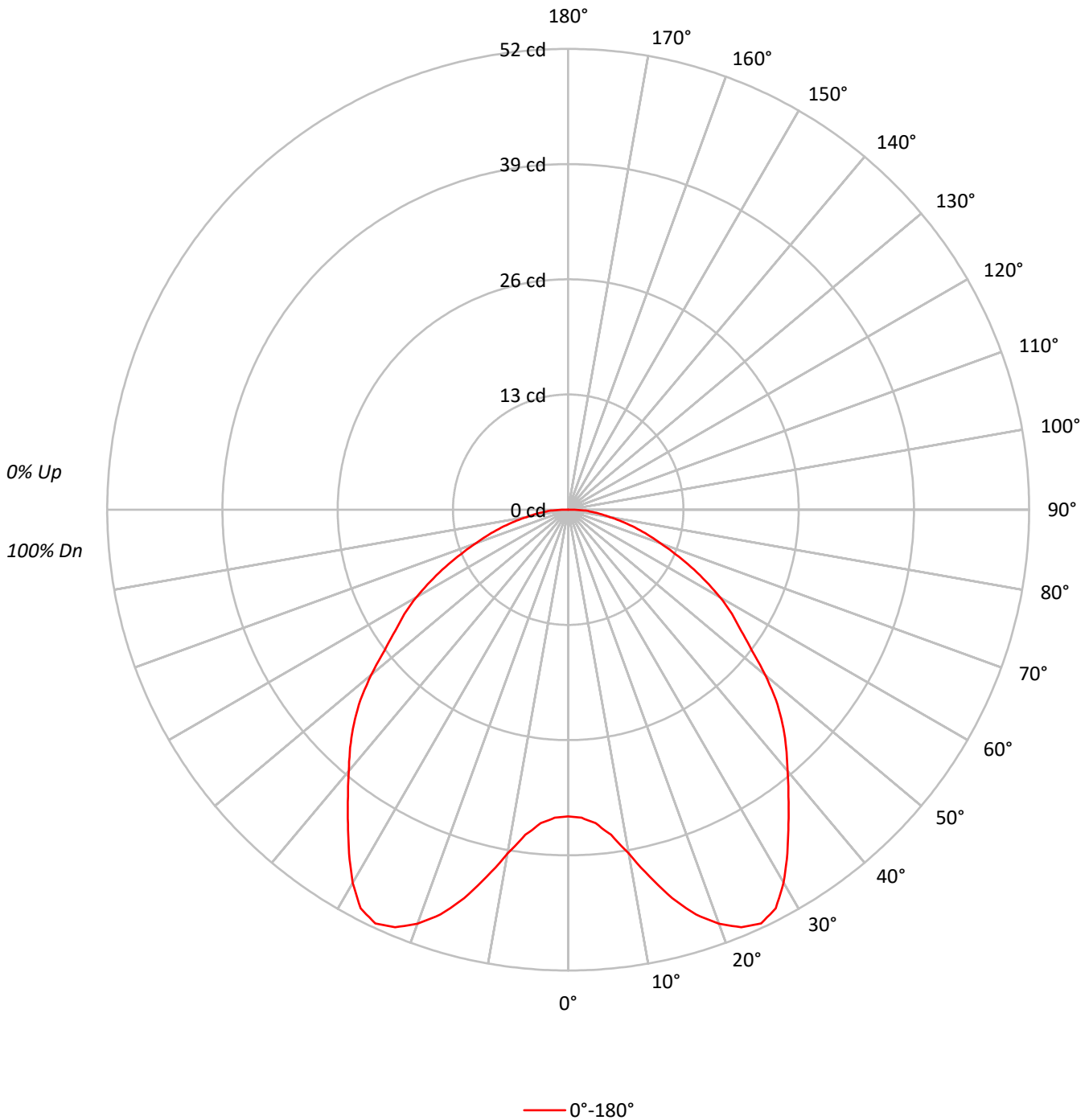
Lumens per Lamp: 1200 (1 lamp)  
Luminaire Lumens: 141.0 lumens  
Efficiency: 11.8%  
Efficacy: 6.7 lumens/watt  
Spacing Criteria (0/90/45): 1.68 / 1.68 / 1.62  
Luminous Opening: Vertical Cylinder (Dia: 0.25' x H: 0.06')  
CIE Type: Direct

Input Watts (W): 21  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0
RCR																		
0	14	14	14	14	14	14	14	14	13	13	13	13	13	13	12	12	12	12
1	13	12	12	11	12	12	12	11	11	11	11	11	11	10	11	10	10	10
2	12	11	10	9	11	11	10	9	10	9	9	10	9	9	9	9	9	8
3	11	9	9	8	10	9	8	8	9	8	8	9	8	7	8	8	7	7
4	10	8	7	7	10	8	7	7	8	7	6	8	7	6	7	7	6	6
5	9	7	6	6	9	7	6	6	7	6	6	7	6	6	7	6	5	5
6	8	7	6	5	8	7	6	5	6	6	5	6	5	5	6	5	5	5
7	8	6	5	4	7	6	5	4	6	5	4	6	5	4	6	5	4	4
8	7	6	5	4	7	5	5	4	5	4	4	5	4	4	5	4	4	4
9	7	5	4	3	7	5	4	3	5	4	3	5	4	3	5	4	3	3
10	6	5	4	3	6	5	4	3	5	4	3	4	4	3	4	4	3	3

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	7587
5°	7602
10°	8307
15°	9497
20°	10394
25°	10850
30°	10395
35°	9478
40°	8698
45°	8045
50°	7172
55°	6255
60°	5597
65°	4718
70°	3796
75°	3020
80°	2161
85°	1410



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.5	2.5	0.3
10°-20°	12.9	9.2	1.1
20°-30°	23.4	16.6	2.0
30°-40°	27.1	19.3	2.3
40°-50°	26.3	18.6	2.2
50°-60°	21.5	15.2	1.8
60°-70°	15.2	10.8	1.3
70°-80°	8.3	5.9	0.7
80°-90°	2.8	2.0	0.2
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	39.8	28.3	3.3
0°-40°	67.0	47.5	5.6
0°-60°	114.8	81.4	9.6
0°-90°	141.0	100.0	11.8
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	141.0	100.0	11.8

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	35	
5°	36	4
15°	45	13
25°	52	23
35°	43	27
45°	34	26
55°	24	22
65°	15	15
75°	8	8
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	34.6
2.5°	34.8
5°	35.5
7.5°	37.0
10°	39.4
12.5°	42.4
15°	45.4
17.5°	47.9
20°	49.7
22.5°	51.0
25°	51.5
27.5°	50.7
30°	48.6
32.5°	46.0
35°	43.3
37.5°	40.8
40°	38.5
42.5°	36.4
45°	34.2
47.5°	31.8
50°	29.0
52.5°	26.1
55°	23.8
57.5°	21.9
60°	19.8
62.5°	17.5
65°	15.3
67.5°	13.1
70°	11.1
72.5°	9.4
75°	7.8
77.5°	6.2
80°	4.8
82.5°	3.6
85°	2.6
87.5°	1.8
90°	0.0

(END OF REPORT)