

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: 267p108

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 267p108  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H280E-18TTT-425W  
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 18CF WITH WALLWASH BAFFLE REFLECTOR  
Light Source: ONE - F18TBX/SPX27 - 1200 LUMENS -18 WATTS  
Ballast/Driver: RCF-2S18-M1-LS-QS

**Summary**

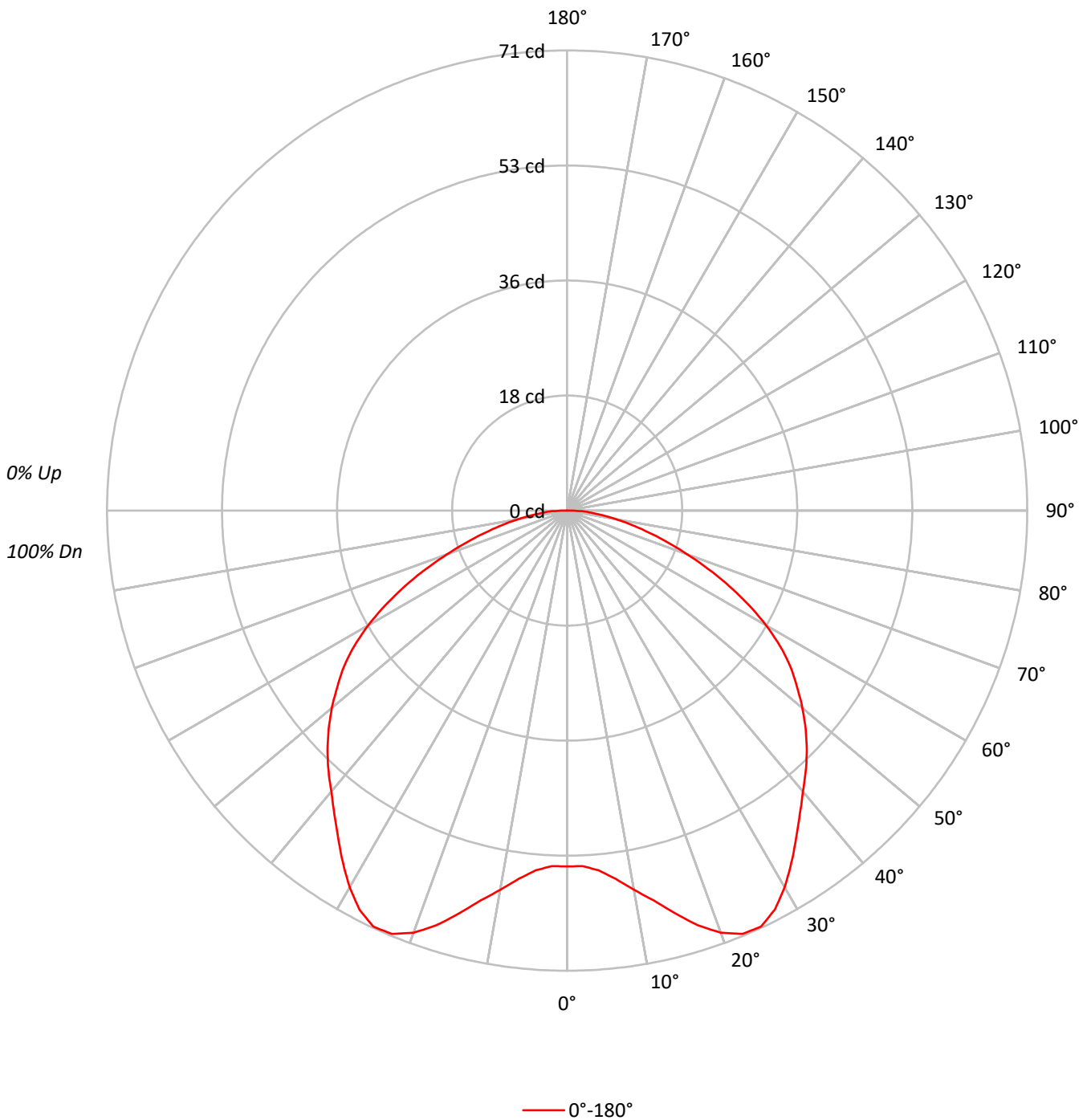
Lumens per Lamp: 1200 (1 lamp)  
Luminaire Lumens: 217.9 lumens  
Efficiency: 18.2%  
Efficacy: 11.5 lumens/watt  
Spacing Criteria (0/90/45): 1.6 / 1.6 / 1.62  
Luminous Opening: Vertical Cylinder (Dia: 0.25' x H: 0.06')  
CIE Type: Direct

Input Watts (W): 19  
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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	22	22	22	22	21	21	21	21	20	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18																	
1	20	19	18	17	19	18	18	17	18	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	15																	
2	18	16	15	14	17	16	15	14	15	14	14	15	14	13	14	14	13	14	14	13	14	14	13	14	14	13	14	13	13																	
3	16	14	13	12	16	14	13	12	14	12	11	13	12	11	13	12	11	13	12	11	13	12	11	13	12	11	13	12	11																	
4	15	13	11	10	14	12	11	10	12	11	10	12	10	9	11	10	9	11	10	9	11	10	9	11	10	9	11	10	9																	
5	14	11	10	8	13	11	10	8	11	9	8	10	9	8	10	9	8	10	9	8	10	9	8	10	9	8	10	9	8																	
6	13	10	8	7	12	10	8	7	10	8	7	9	8	7	9	8	7	9	8	7	9	8	7	9	8	7	9	8	7																	
7	12	9	8	6	11	9	7	6	9	7	6	8	7	6	8	7	6	8	7	6	8	7	6	8	7	6	8	7	6																	
8	11	8	7	6	11	8	7	6	8	7	6	8	6	6	7	6	6	7	6	6	7	6	6	7	6	6	7	6	5																	
9	10	8	6	5	10	7	6	5	7	6	5	7	6	5	7	6	5	7	6	5	7	6	5	7	6	5	7	6	5																	
10	9	7	6	5	9	7	5	5	7	5	5	7	5	5	6	5	4	6	5	4	6	5	4	6	5	4	6	5	4																	

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

	0°
0°	12039
5°	11928
10°	12523
15°	13450
20°	14492
25°	14916
30°	14352
35°	13484
40°	12787
45°	12303
50°	11723
55°	11065
60°	10036
65°	8511
70°	6738
75°	5034
80°	3466
85°	2007



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.4	2.5	0.5
10°-20°	18.4	8.4	1.5
20°-30°	32.3	14.8	2.7
30°-40°	38.6	17.7	3.2
40°-50°	40.3	18.5	3.4
50°-60°	37.4	17.2	3.1
60°-70°	27.3	12.5	2.3
70°-80°	14.0	6.4	1.2
80°-90°	4.2	1.9	0.3
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°	56.1	25.7	4.7
0°-40°	94.7	43.5	7.9
0°-60°	172.5	79.1	14.4
0°-90°	217.9	100.0	18.2
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°	217.9	100.0	18.2

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	55	
5°	56	5
15°	64	18
25°	71	32
35°	62	39
45°	52	40
55°	42	37
65°	28	27
75°	13	14
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	54.9
2.5°	54.9
5°	55.7
7.5°	57.3
10°	59.4
12.5°	61.6
15°	64.3
17.5°	67.1
20°	69.3
22.5°	70.7
25°	70.8
27.5°	69.4
30°	67.1
32.5°	64.4
35°	61.6
37.5°	59.0
40°	56.6
42.5°	54.5
45°	52.3
47.5°	49.9
50°	47.4
52.5°	44.7
55°	42.1
57.5°	39.0
60°	35.5
62.5°	31.6
65°	27.6
67.5°	23.6
70°	19.7
72.5°	16.2
75°	13.0
77.5°	10.2
80°	7.7
82.5°	5.5
85°	3.7
87.5°	2.3
90°	0.0

(END OF REPORT)