

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: 267p111

Luminaire Tested: **H280E-18TTT-406BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p111
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H280E-18TTT-406BA
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 18CF WITH BLACK BAFFLE REFLECTOR
Light Source: ONE - F18TBX/SPX27 - 1200 LUMENS - 18 WATTS
Ballast/Driver: RCF-2S18-M1-LS-QS

Summary

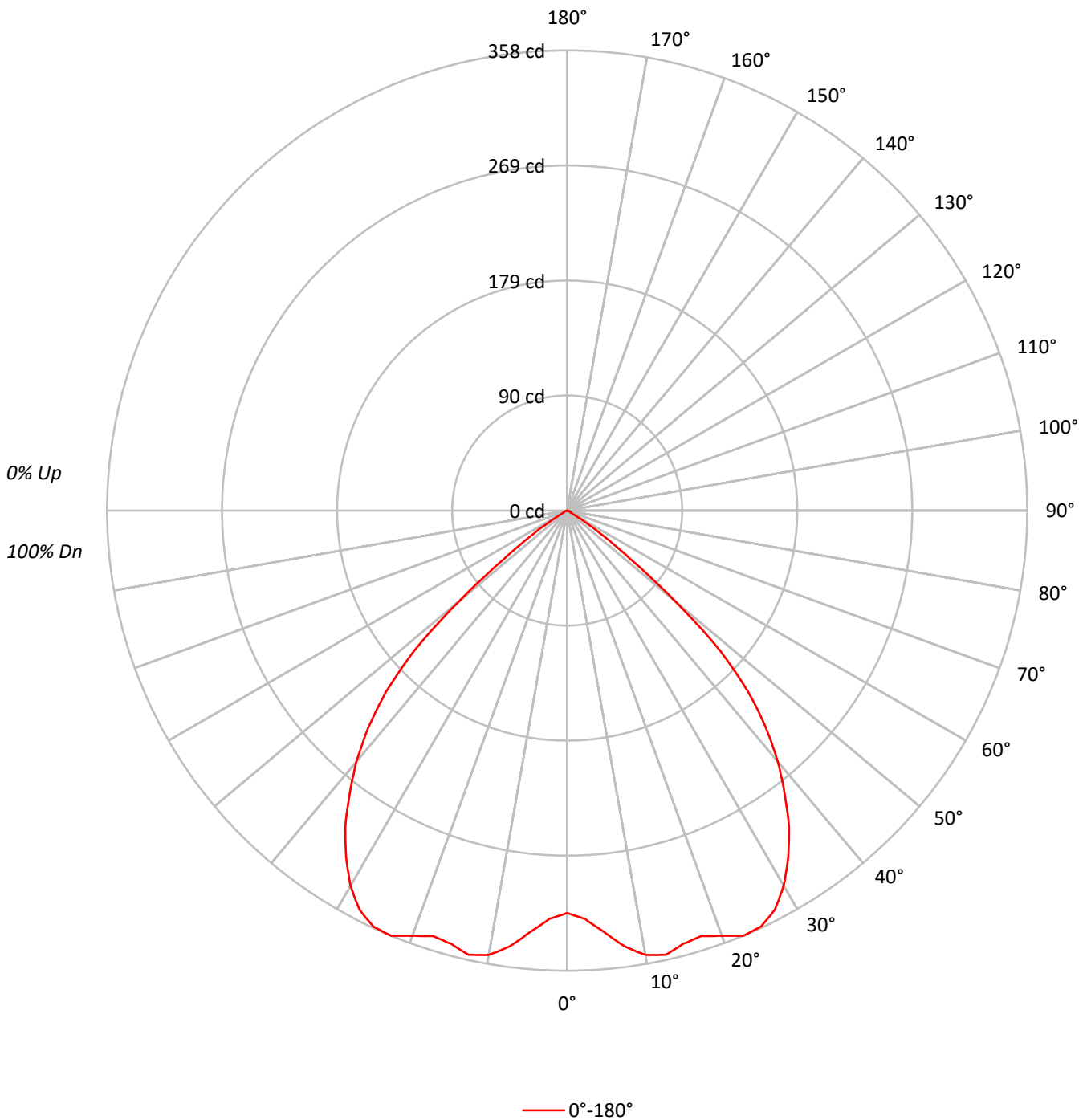
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 669.9 lumens
Efficiency: 55.8%
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.37
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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	0
RCR																				
0	66	66	66	66	65	65	65	65	62	62	62		59	59	59		57	57	57	56
1	63	61	59	58	61	60	58	57	57	56	55		55	54	53		53	53	52	51
2	59	56	53	51	57	55	52	50	53	51	49		51	49	48		49	48	47	46
3	55	51	47	45	54	50	47	44	48	46	43		47	45	43		45	44	42	41
4	51	46	42	39	50	45	42	39	44	41	39		43	40	38		42	40	38	37
5	48	42	38	35	47	42	38	35	41	37	35		40	37	34		39	36	34	33
6	45	39	35	32	44	38	34	32	37	34	31		36	33	31		36	33	31	30
7	42	35	31	29	41	35	31	28	34	31	28		34	30	28		33	30	28	27
8	39	33	29	26	38	32	29	26	32	28	26		31	28	26		30	28	25	25
9	37	30	26	24	36	30	26	24	29	26	23		29	26	23		28	25	23	22
10	35	28	24	22	34	28	24	22	27	24	21		27	24	21		26	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18683
5°	19713
10°	21275
15°	21567
20°	22360
25°	23513
30°	23228
35°	21934
40°	19870
45°	16799
50°	10215
55°	3642
60°	358
65°	424
70°	349
75°	231
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.1	4.8	2.7
10°-20°	99.2	14.8	8.3
20°-30°	162.9	24.3	13.6
30°-40°	186.7	27.9	15.6
40°-50°	148.1	22.1	12.3
50°-60°	36.9	5.5	3.1
60°-70°	2.6	0.4	0.2
70°-80°	1.3	0.2	0.1
80°-90°	0.0	0.0	0.0
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°	294.3	43.9	24.5
0°-40°	481.0	71.8	40.1
0°-60°	666.0	99.4	55.5
0°-90°	669.9	100.0	55.8
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°	669.9	100.0	55.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	313	
5°	329	32
15°	349	99
25°	357	163
35°	301	187
45°	199	148
55°	35	37
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	313
2.5°	318
5°	329
7.5°	342
10°	351
12.5°	354
15°	349
17.5°	347
20°	352
22.5°	358
25°	357
27.5°	350
30°	337
32.5°	320
35°	301
37.5°	278
40°	255
42.5°	229
45°	199
47.5°	162
50°	110
52.5°	62
55°	35
57.5°	15
60°	3
62.5°	3
65°	3
67.5°	2
70°	2
72.5°	2
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)