

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: 267p109

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p109
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H280E-18TTT-406SC
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 18CF WITH CLEAR SPECULAR REFLECTOR, WHITE SPLAY
Light Source: ONE - F18TBX/SPX27 - 1200 LUMENS - 18 WATTS
Ballast/Driver: RCF-2S18-M1-LS-QS

Summary

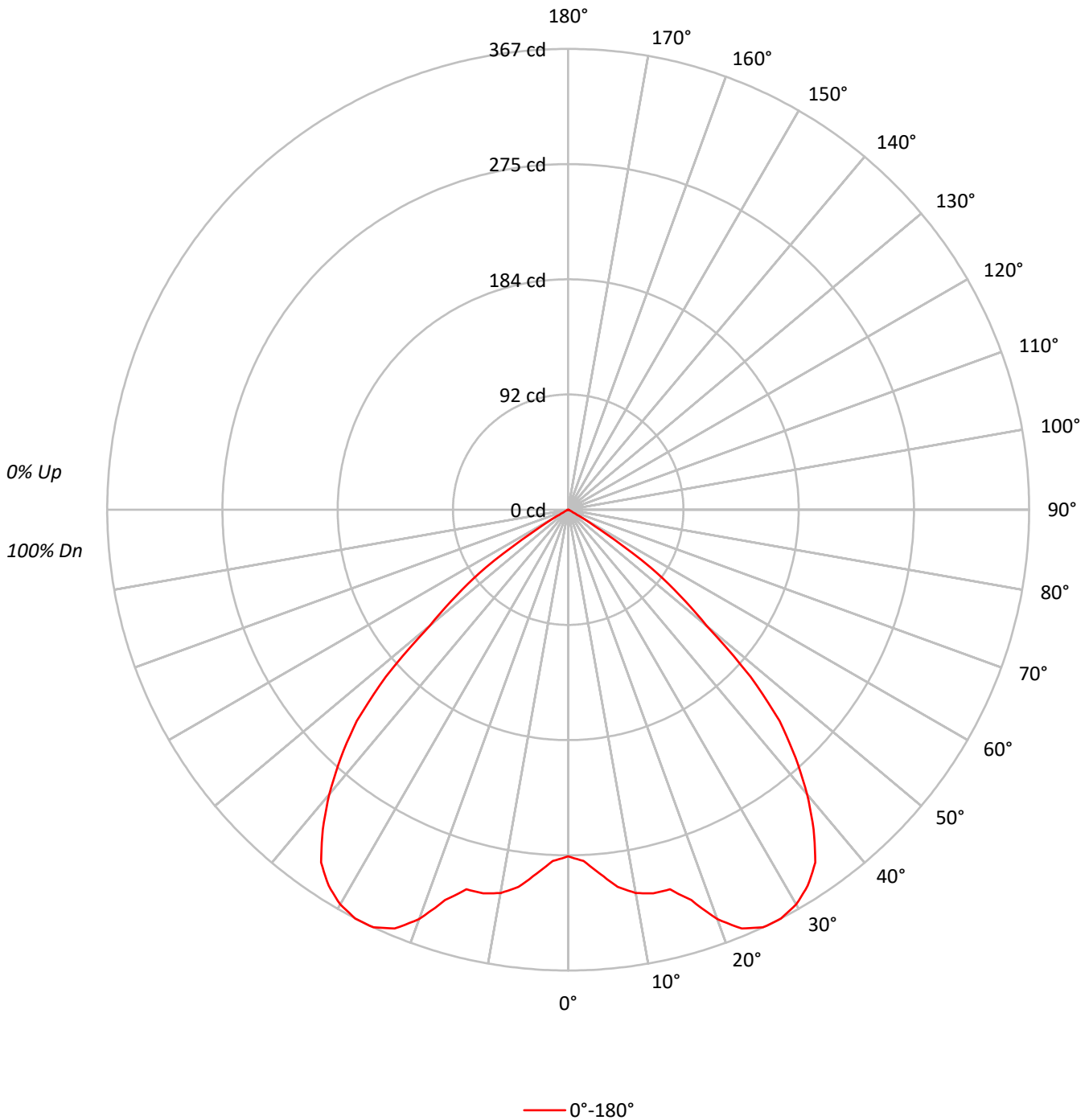
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 745.2 lumens
Efficiency: 62.1%
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 1.65 / 1.65 / 1.49
Luminous Opening: Circular (Dia: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (A_{in}): 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	74	74	74	74	72	72	72	72	69	69	69		66	66	66		63	63	63	62
1	70	68	66	64	68	66	64	63	64	62	61		61	60	59		59	58	57	56
2	65	61	58	55	64	60	57	55	58	56	54		56	54	52		54	53	51	50
3	60	55	52	48	59	55	51	48	53	50	47		51	49	46		50	48	46	45
4	56	50	46	43	55	49	45	42	48	45	42		47	44	41		45	43	41	40
5	52	46	41	38	51	45	41	37	44	40	37		43	39	37		42	39	36	35
6	49	42	37	33	48	41	37	33	40	36	33		39	36	33		38	35	33	31
7	45	38	33	30	44	38	33	30	37	33	30		36	32	29		35	32	29	28
8	42	35	30	27	41	34	30	27	34	30	27		33	29	27		32	29	26	25
9	39	32	27	24	39	32	27	24	31	27	24		30	27	24		30	26	24	23
10	37	30	25	22	36	29	25	22	29	25	22		28	24	22		28	24	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13944
5°	14758
10°	15904
15°	16371
20°	18656
25°	20458
30°	21177
35°	21155
40°	19522
45°	17005
50°	11318
55°	7047
60°	1010
65°	120
70°	148
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.4	3.8	2.4
10°-20°	91.2	12.2	7.6
20°-30°	168.0	22.5	14.0
30°-40°	211.0	28.3	17.6
40°-50°	177.1	23.8	14.8
50°-60°	67.0	9.0	5.6
60°-70°	2.1	0.3	0.2
70°-80°	0.4	0.1	0.0
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°	287.6	38.6	24.0
0°-40°	498.6	66.9	41.5
0°-60°	742.7	99.7	61.9
0°-90°	745.2	100.0	62.1
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°	745.2	100.0	62.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	276	
5°	291	28
15°	313	91
25°	367	168
35°	343	211
45°	238	177
55°	80	67
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	276
2.5°	280
5°	291
7.5°	303
10°	310
12.5°	313
15°	313
17.5°	326
20°	347
22.5°	361
25°	367
27.5°	367
30°	363
32.5°	355
35°	343
37.5°	321
40°	296
42.5°	268
45°	238
47.5°	197
50°	144
52.5°	112
55°	80
57.5°	35
60°	10
62.5°	1
65°	1
67.5°	1
70°	1
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)