

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: H22239

Luminaire Tested: **H280L-406**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22239
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H280L-406
Description: HALO 6" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR
Light Source: 18W BIAX 18 WATTS 1200 LUMENS
BIAX TRIPLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

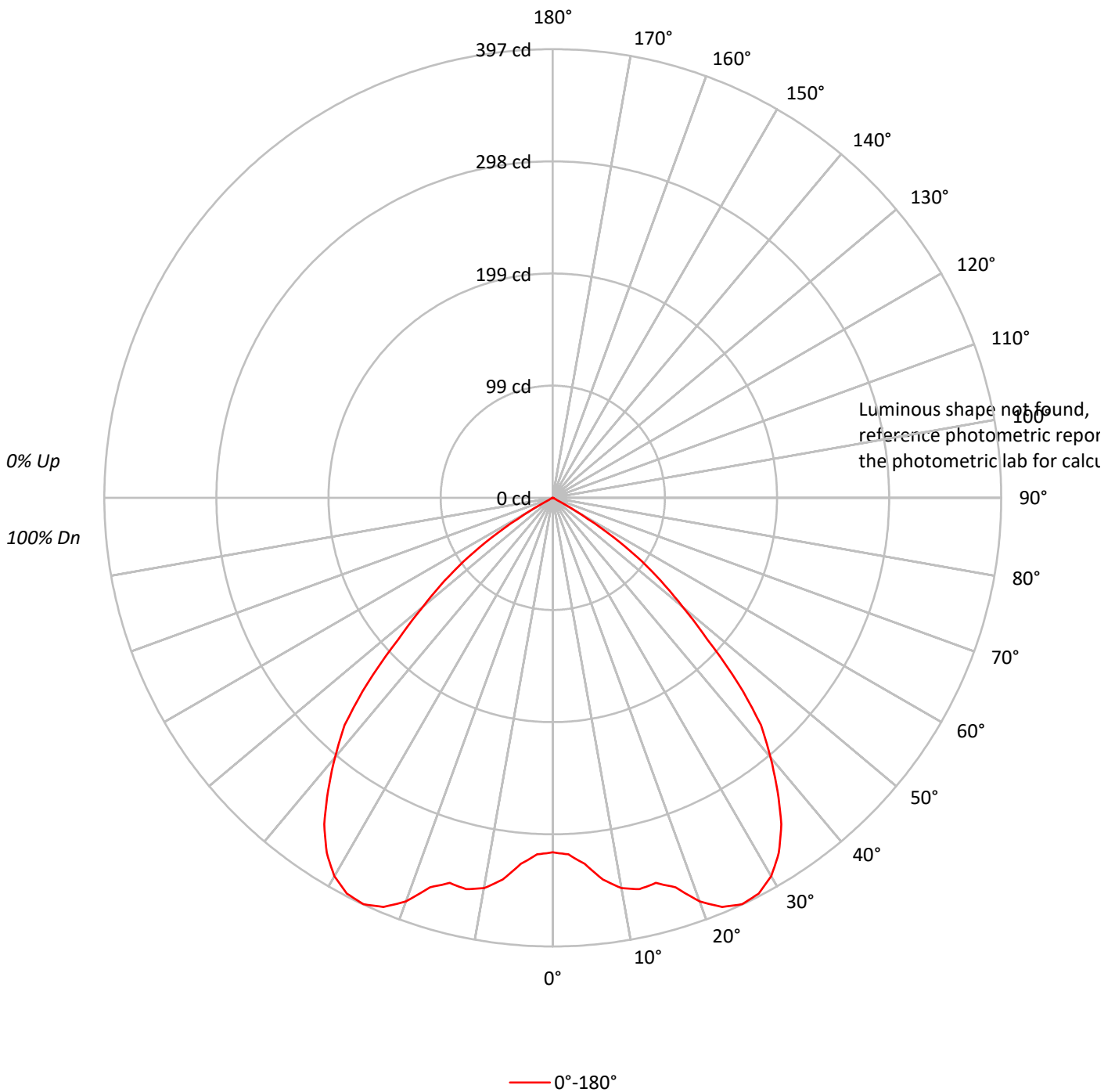
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 793.1 lumens
Efficiency: 66.1%
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.56 / 1.43
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 24
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



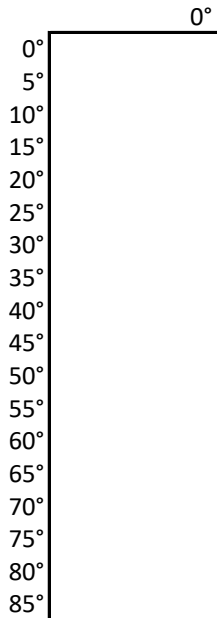


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	79	79	79	79	77	77	77	77	73	73	73		70	70	70		67	67	67	66
1	74	72	70	68	72	70	69	67	68	66	65		65	64	63		63	62	61	60
2	69	65	62	59	68	64	61	58	62	59	57		60	58	56		58	56	55	53
3	64	59	55	52	63	58	54	51	56	53	50		54	52	49		53	51	49	47
4	60	53	49	45	58	53	48	45	51	47	44		50	47	44		48	46	43	42
5	56	49	44	40	54	48	43	40	47	43	40		45	42	39		44	41	39	38
6	52	44	39	36	51	44	39	36	43	38	35		42	38	35		41	37	35	34
7	48	41	36	32	47	40	35	32	39	35	32		38	34	32		37	34	31	30
8	45	37	32	29	44	37	32	29	36	32	29		35	31	28		34	31	28	27
9	42	34	29	26	41	34	29	26	33	29	26		33	29	26		32	28	26	25
10	40	32	27	24	39	31	27	24	31	27	24		30	26	24		30	26	23	22

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.0	4.0	2.7
10°-20°	102.0	12.9	8.5
20°-30°	181.4	22.9	15.1
30°-40°	218.0	27.5	18.2
40°-50°	175.5	22.1	14.6
50°-60°	78.7	9.9	6.6
60°-70°	4.6	0.6	0.4
70°-80°	0.8	0.1	0.1
80°-90°	0.1	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°	315.3	39.8	26.3
0°-40°	533.4	67.3	44.4
0°-60°	787.6	99.3	65.6
0°-90°	793.1	100.0	66.1
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°	793.1	100.0	66.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	314	
5°	325	32
15°	353	102
25°	397	181
35°	353	218
45°	232	176
55°	91	79
65°	2	5
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	313.7
2.5°	315.8
5°	325.2
7.5°	340.7
10°	350.7
12.5°	354.7
15°	352.8
17.5°	361.3
20°	380.1
22.5°	391.9
25°	396.7
27.5°	394.8
30°	386.6
32.5°	372.4
35°	352.7
37.5°	326.8
40°	299.9
42.5°	272.7
45°	231.9
47.5°	185.7
50°	150.1
52.5°	120.7
55°	91.1
57.5°	57.6
60°	22.3
62.5°	4.2
65°	1.7
67.5°	1.4
70°	1.1
72.5°	0.9
75°	0.7
77.5°	0.5
80°	0.4
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)