

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: P20140

Luminaire Tested: **ML712830TUNVD010-494SC06**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P20140  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML712830TUNVD010-494SC06  
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR TRIM  
REFLECTOR WITH MODULE ML712830TUNVD010  
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE  
(1)24 WATTS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

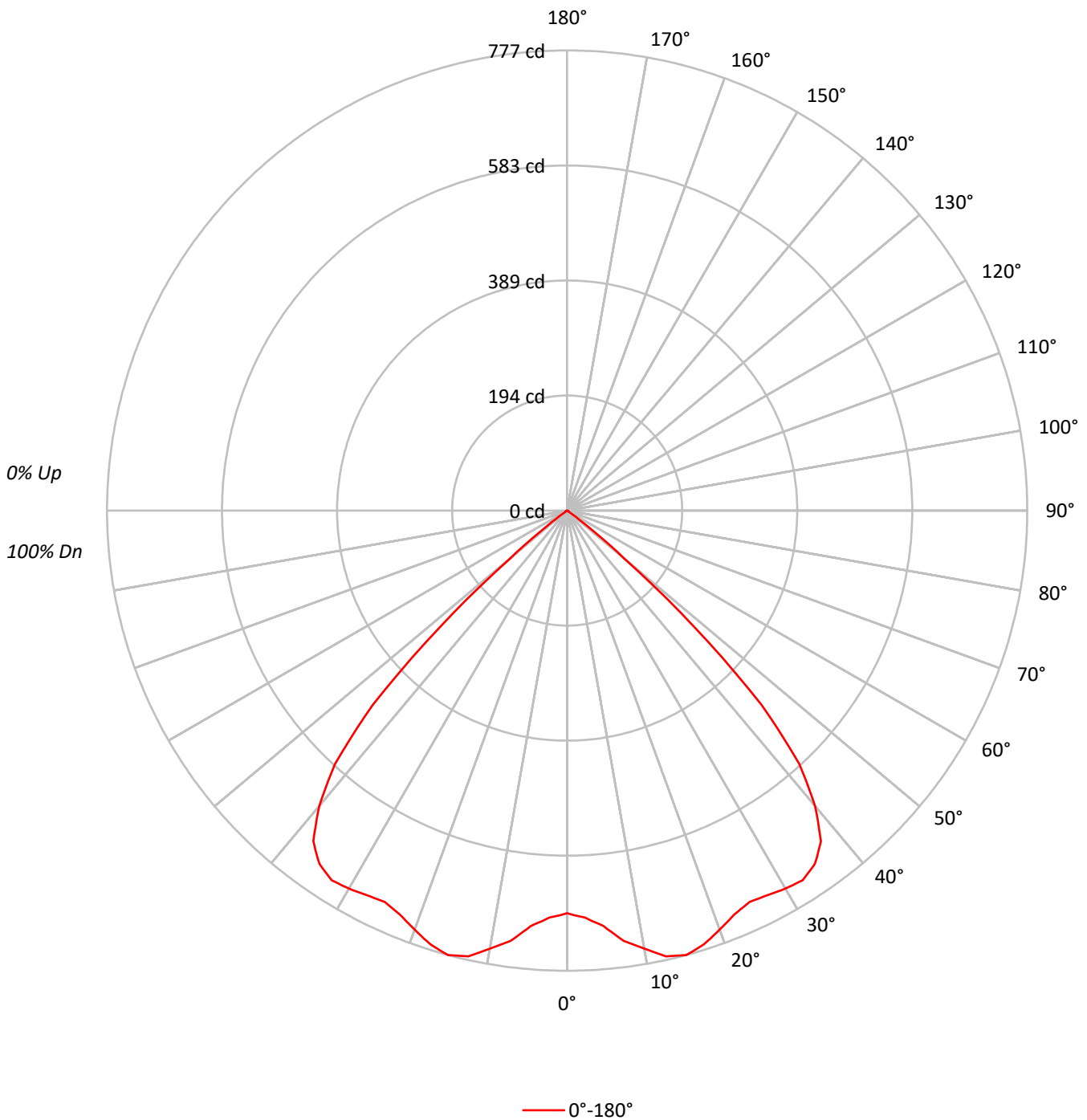
Lumens per Lamp: 1429 (1 lamp)  
Luminaire Lumens: 1429.7 lumens  
Efficiency: 100.1%  
Efficacy: 55.4 lumens/watt  
Spacing Criteria (0/90/45): 1.56 / 1.56 / 1.4  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.8  
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	91	86	81	97	90	85	80	87	83	79		85	81	78		82	79	76	75
4	93	84	77	72	91	82	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	62	61
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52		61	56	52		60	55	51	50
8	71	60	52	48	70	59	52	47	58	52	47		57	51	47		56	51	47	45
9	67	55	48	43	65	55	48	43	54	47	43		53	47	43		52	46	43	41
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	38

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

	0°
0°	37278
5°	38741
10°	41805
15°	44098
20°	43929
25°	44095
30°	46653
35°	48787
40°	46587
45°	35973
50°	10746
55°	287
60°	219
65°	130
70°	160
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	69.0	4.8	4.8
10°-20°	217.4	15.2	15.2
20°-30°	340.5	23.8	23.8
30°-40°	449.3	31.4	31.4
40°-50°	328.3	23.0	23.0
50°-60°	23.5	1.6	1.6
60°-70°	1.4	0.1	0.1
70°-80°	0.4	0.0	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°	626.8	43.8	43.9
0°-40°	1076.1	75.3	75.3
0°-60°	1428.0	99.9	99.9
0°-90°	1429.7	100.0	100.1
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°	1429.7	100.0	100.1

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	680	
5°	704	69
15°	777	217
25°	729	340
35°	729	449
45°	464	328
55°	3	24
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	680
2.5°	688
5°	704
7.5°	733
10°	751
12.5°	771
15°	777
17.5°	768
20°	753
22.5°	738
25°	729
27.5°	732
30°	737
32.5°	740
35°	729
37.5°	704
40°	651
42.5°	580
45°	464
47.5°	293
50°	126
52.5°	40
55°	3
57.5°	2
60°	2
62.5°	2
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)