

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: P20162

Luminaire Tested: **ML712827TUNVD010-494SC06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20162
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010-494SC06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR TRIM
REFLECTOR WITH MODULE ML712827TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

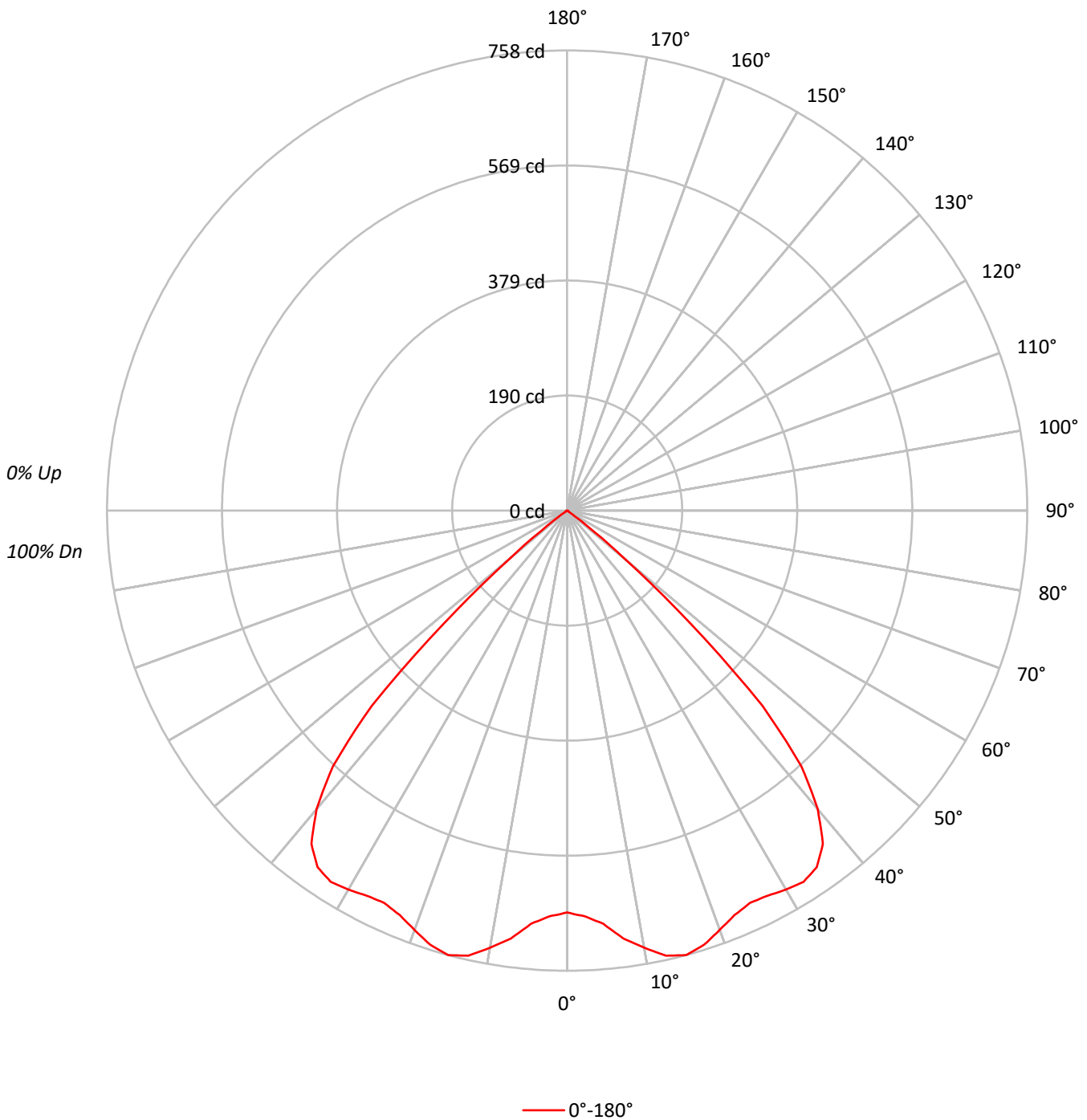
Lumens per Lamp: 1398 (1 lamp)
Luminaire Lumens: 1397.9 lumens
Efficiency: 100.0%
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 1.57 / 1.57 / 1.41
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.6
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	73	70	76	72	69	67
5	87	77	70	64	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	56	55
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	52	48	69	59	52	47	58	52	47	57	51	47	56	50	47	45
9	66	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36291
5°	37585
10°	40692
15°	43020
20°	42879
25°	43127
30°	45640
35°	47984
40°	45943
45°	35275
50°	10575
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°	67.0	4.8	4.8
10°-20°	212.1	15.2	15.2
20°-30°	332.7	23.8	23.8
30°-40°	441.3	31.6	31.6
40°-50°	320.3	22.9	22.9
50°-60°	23.3	1.7	1.7
60°-70°	1.1	0.1	0.1
70°-80°	0.1	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°	611.8	43.8	43.8
0°-40°	1053.0	75.3	75.3
0°-60°	1396.6	99.9	99.9
0°-90°	1397.9	100.0	100.0
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°	1397.9	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	662	
5°	683	67
15°	758	212
25°	713	333
35°	717	441
45°	455	320
55°	3	23
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	662
2.5°	669
5°	683
7.5°	711
10°	731
12.5°	751
15°	758
17.5°	750
20°	735
22.5°	721
25°	713
27.5°	715
30°	721
32.5°	725
35°	717
37.5°	692
40°	642
42.5°	571
45°	455
47.5°	275
50°	124
52.5°	40
55°	3
57.5°	2
60°	2
62.5°	1
65°	1
67.5°	1
70°	1
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)