

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: P20158

Luminaire Tested: **ML712827TUNVD010-493WBS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20158
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010-493WBS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN
LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND
SOLITE GLASS LENS WITH MODULE ML712827TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1244 (1 lamp)
Luminaire Lumens: 1245.4 lumens
Efficiency: 100.1%
Efficacy: 46.8 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

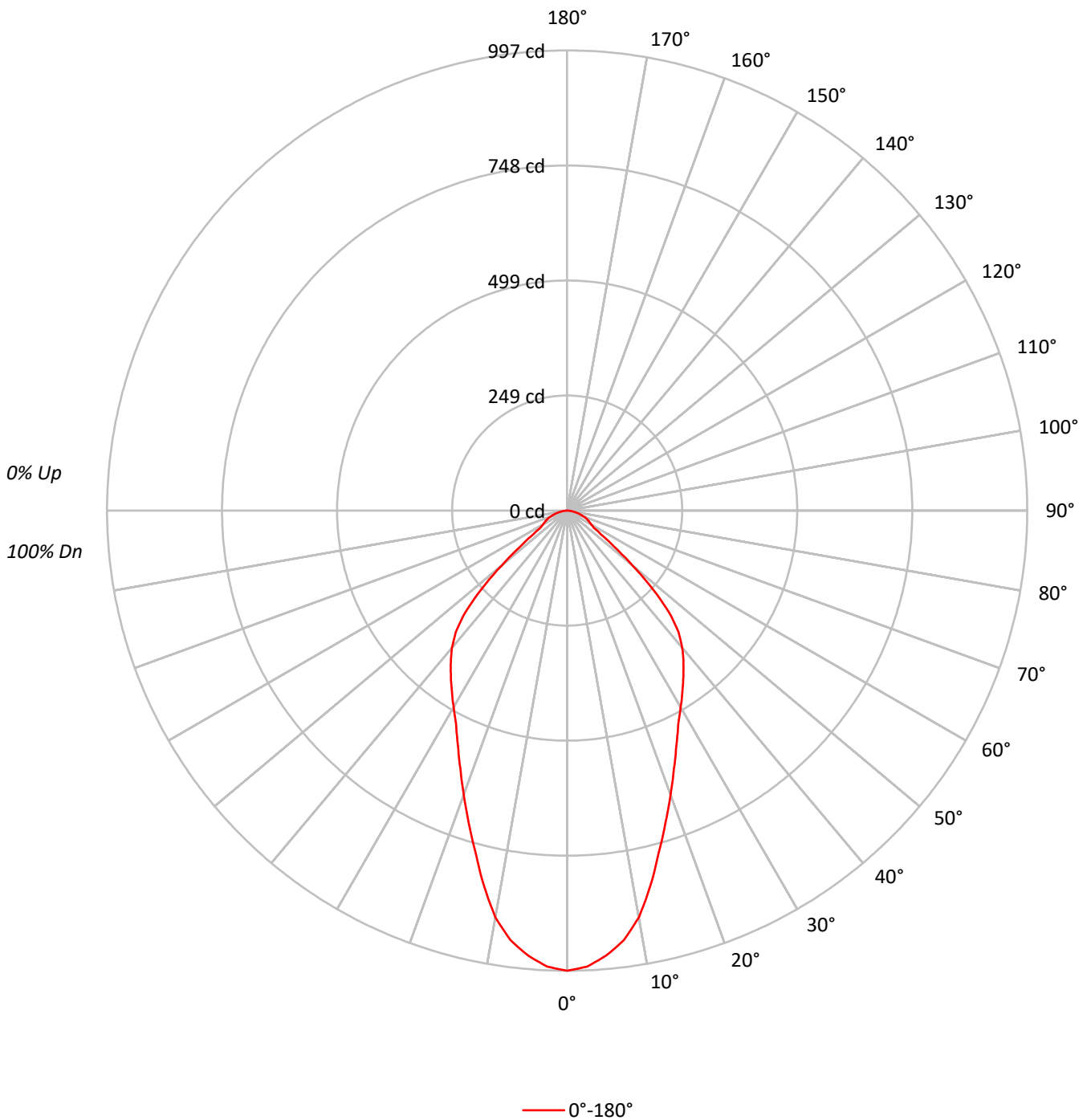
Input Watts (W): 26.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		107	107	107		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	82	77	95	87	81	77	85	80	75		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67		75	70	66		73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61		69	64	60		68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	55		64	59	54		63	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54656
5°	53269
10°	49821
15°	43530
20°	38212
25°	33873
30°	31144
35°	29379
40°	27766
45°	24266
50°	15778
55°	8506
60°	6578
65°	6486
70°	6251
75°	5507
80°	4735
85°	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	90.2	7.2	7.2
10°-20°	215.0	17.3	17.3
20°-30°	259.2	20.8	20.8
30°-40°	274.8	22.1	22.1
40°-50°	231.8	18.6	18.6
50°-60°	90.3	7.3	7.3
60°-70°	49.4	4.0	4.0
70°-80°	27.7	2.2	2.2
80°-90°	6.9	0.6	0.6
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°	564.4	45.3	45.4
0°-40°	839.3	67.4	67.5
0°-60°	1161.4	93.3	93.4
0°-90°	1245.4	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°	1245.4	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	997	
5°	968	90
15°	767	215
25°	560	259
35°	439	275
45°	313	232
55°	89	90
65°	50	49
75°	26	28
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	997
2.5°	989
5°	968
7.5°	939
10°	895
12.5°	833
15°	767
17.5°	709
20°	655
22.5°	605
25°	560
27.5°	521
30°	492
32.5°	465
35°	439
37.5°	414
40°	388
42.5°	357
45°	313
47.5°	252
50°	185
52.5°	128
55°	89
57.5°	68
60°	60
62.5°	55
65°	50
67.5°	45
70°	39
72.5°	32
75°	26
77.5°	20
80°	15
82.5°	10
85°	6
87.5°	2
90°	0

(END OF REPORT)