

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: P20159

Luminaire Tested: **ML712827TUNVD010-493SCS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20159
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010-493SCS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR 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: 1227 (1 lamp)
Luminaire Lumens: 1228.5 lumens
Efficiency: 100.1%
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

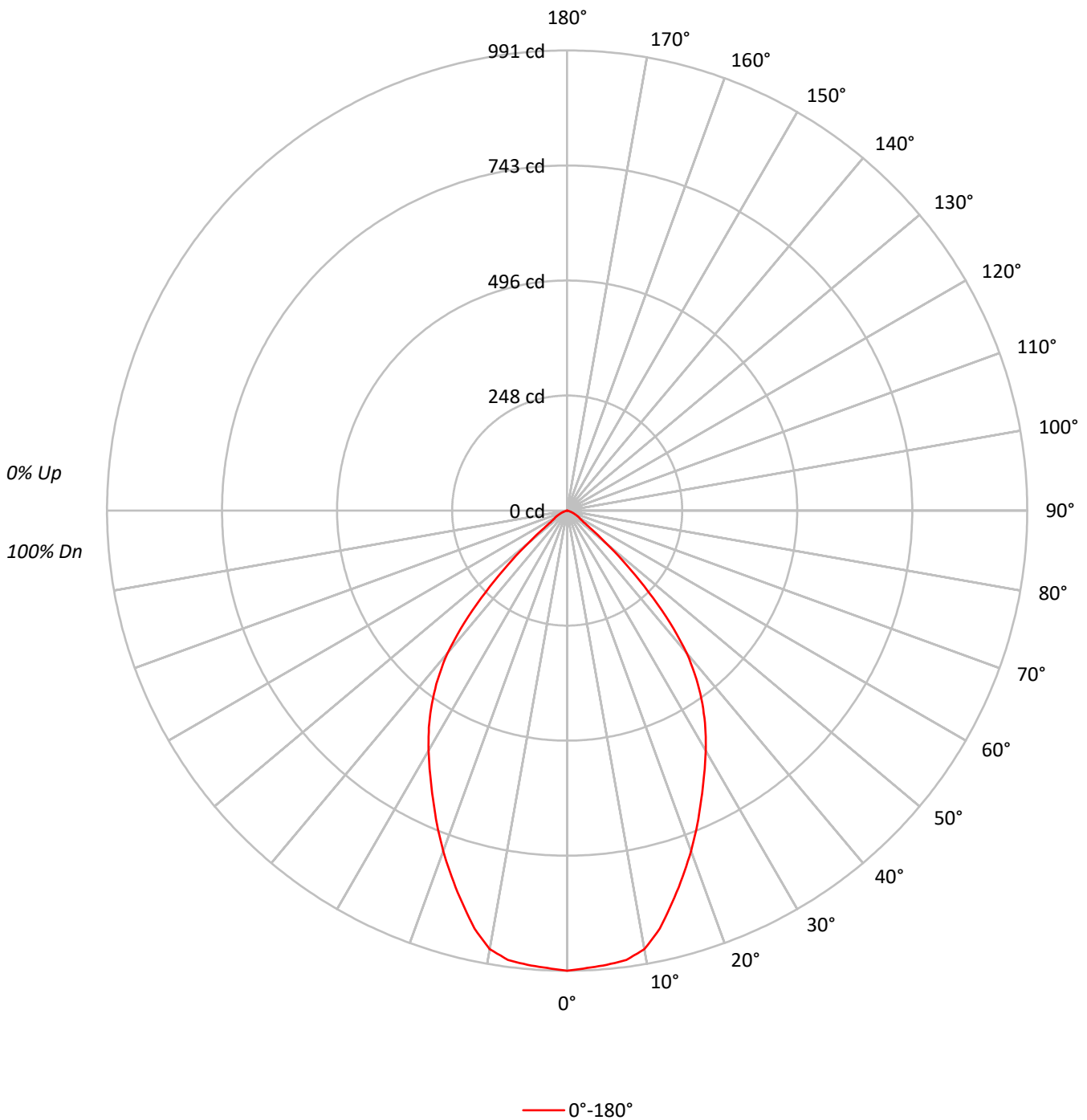
Input Watts (W): 26.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90	87	85	84
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83	80	78	76
4	94	85	79	74	92	84	78	73	82	77	72		80	75	72		78	74	71	69
5	88	78	72	67	86	77	71	67	76	70	66		74	69	65		72	68	65	63
6	83	73	66	61	81	72	65	61	70	64	60		69	64	60		67	63	59	58
7	78	67	61	56	76	67	60	56	65	59	55		64	59	55		63	58	55	53
8	73	63	56	51	72	62	56	51	61	55	51		60	55	51		59	54	50	49
9	69	59	52	47	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54327
5°	54039
10°	53384
15°	49603
20°	45504
25°	41373
30°	37791
35°	33997
40°	28697
45°	19227
50°	9381
55°	4110
60°	3180
65°	2335
70°	1603
75°	424
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.1	7.6	7.6
10°-20°	244.9	19.9	20.0
20°-30°	315.0	25.6	25.7
30°-40°	314.7	25.6	25.6
40°-50°	191.3	15.6	15.6
50°-60°	47.0	3.8	3.8
60°-70°	18.6	1.5	1.5
70°-80°	3.8	0.3	0.3
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°	652.9	53.1	53.2
0°-40°	967.7	78.8	78.9
0°-60°	1206.0	98.2	98.3
0°-90°	1228.5	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°	1228.5	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	991	
5°	982	93
15°	874	245
25°	684	315
35°	508	315
45°	248	191
55°	43	47
65°	18	19
75°	2	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	991
2.5°	986
5°	982
7.5°	976
10°	959
12.5°	922
15°	874
17.5°	827
20°	780
22.5°	732
25°	684
27.5°	639
30°	597
32.5°	554
35°	508
37.5°	458
40°	401
42.5°	328
45°	248
47.5°	173
50°	110
52.5°	67
55°	43
57.5°	33
60°	29
62.5°	24
65°	18
67.5°	14
70°	10
72.5°	6
75°	2
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)