

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: P20161

Luminaire Tested: **ML712827TUNVD010-493HS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20161
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010-493HS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH HAZE 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

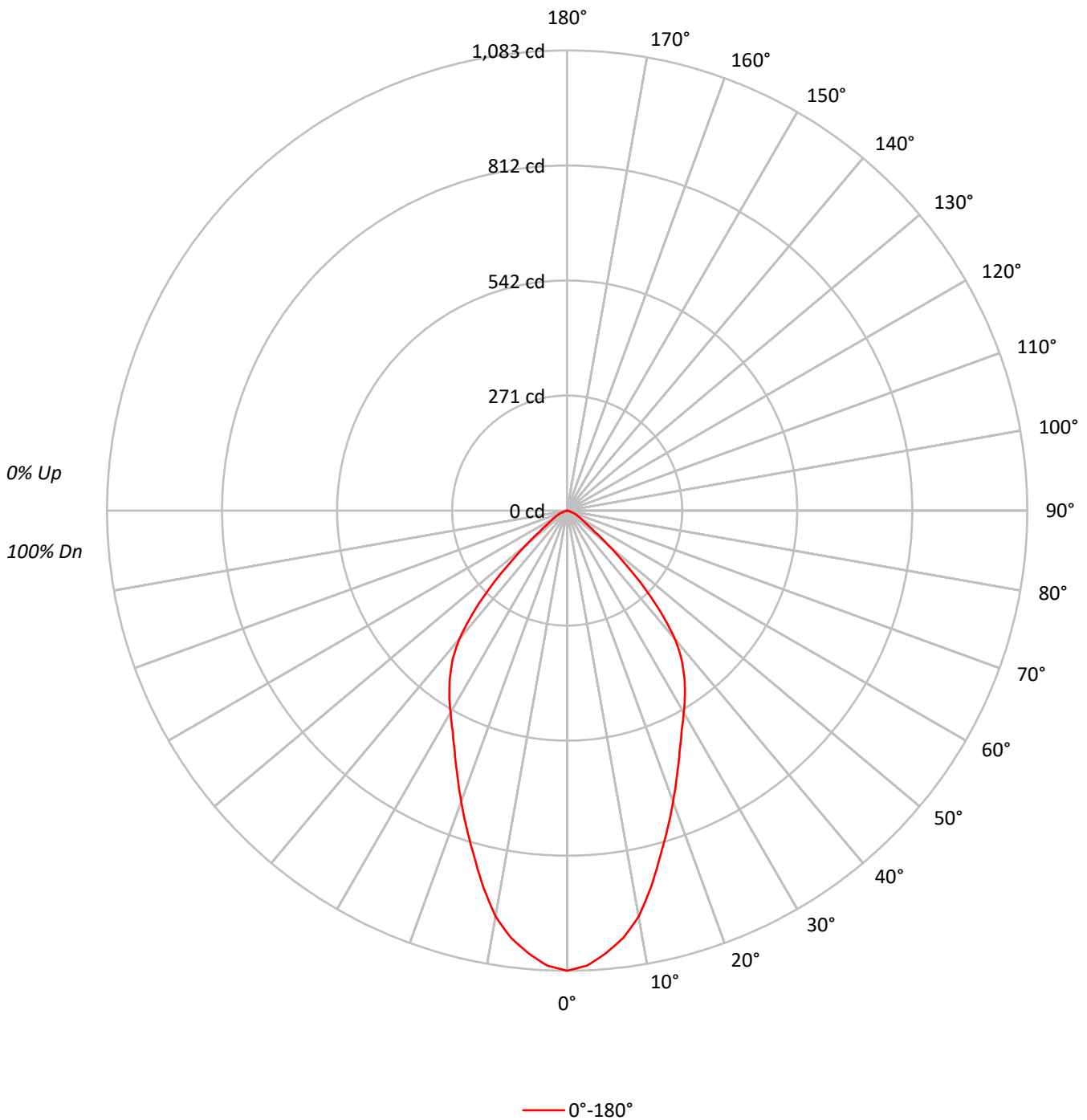
Lumens per Lamp: 1206 (1 lamp)
Luminaire Lumens: 1207.8 lumens
Efficiency: 100.1%
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.98
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.9
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	107	105	102	103	101	99		100	98	96		96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	73	81	76	72		79	74	71		77	73	70	68
5	88	78	71	66	86	77	70	66	75	69	65		73	68	65		72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	59		68	63	59		67	62	59	57
7	77	67	60	55	76	66	59	55	65	59	54		63	58	54		62	57	54	52
8	73	62	55	51	72	61	55	50	60	54	50		59	54	50		58	53	50	48
9	69	58	51	47	68	57	51	47	56	51	46		55	50	46		55	50	46	45
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59370
5°	57561
10°	53996
15°	47900
20°	42529
25°	37865
30°	34752
35°	32190
40°	28267
45°	19847
50°	10746
55°	5543
60°	4057
65°	3113
70°	1923
75°	847
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	97.5	8.1	8.1
10°-20°	236.5	19.6	19.6
20°-30°	289.6	24.0	24.0
30°-40°	298.4	24.7	24.7
40°-50°	196.8	16.3	16.3
50°-60°	59.3	4.9	4.9
60°-70°	23.8	2.0	2.0
70°-80°	5.4	0.4	0.4
80°-90°	0.4	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°	623.7	51.6	51.7
0°-40°	922.1	76.4	76.5
0°-60°	1178.2	97.6	97.7
0°-90°	1207.8	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°	1207.8	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1083	
5°	1046	98
15°	844	237
25°	626	290
35°	481	298
45°	256	197
55°	58	59
65°	24	24
75°	4	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1083
2.5°	1072
5°	1046
7.5°	1014
10°	970
12.5°	909
15°	844
17.5°	785
20°	729
22.5°	675
25°	626
27.5°	584
30°	549
32.5°	516
35°	481
37.5°	443
40°	395
42.5°	330
45°	256
47.5°	185
50°	126
52.5°	83
55°	58
57.5°	45
60°	37
62.5°	30
65°	24
67.5°	18
70°	12
72.5°	8
75°	4
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)