

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: G3-1812-075-10

Luminaire Tested: **LCR6309FSE010MW 2700K**

Test Date: 02/15/19

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: G3-1812-075-10
 Test Lab: INNOVATION CENTER(G3)
 Test Date: 02/15/19
 Issue Date: 3/3/2020
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: LCR6309FSE010MW 2700K
 Description: LCR 6INCH LED RECESSED FIXTURE 90CRI 2700K
 Light Source: LED
 (1) HIGH LED
 Ballast/Driver: -

Summary

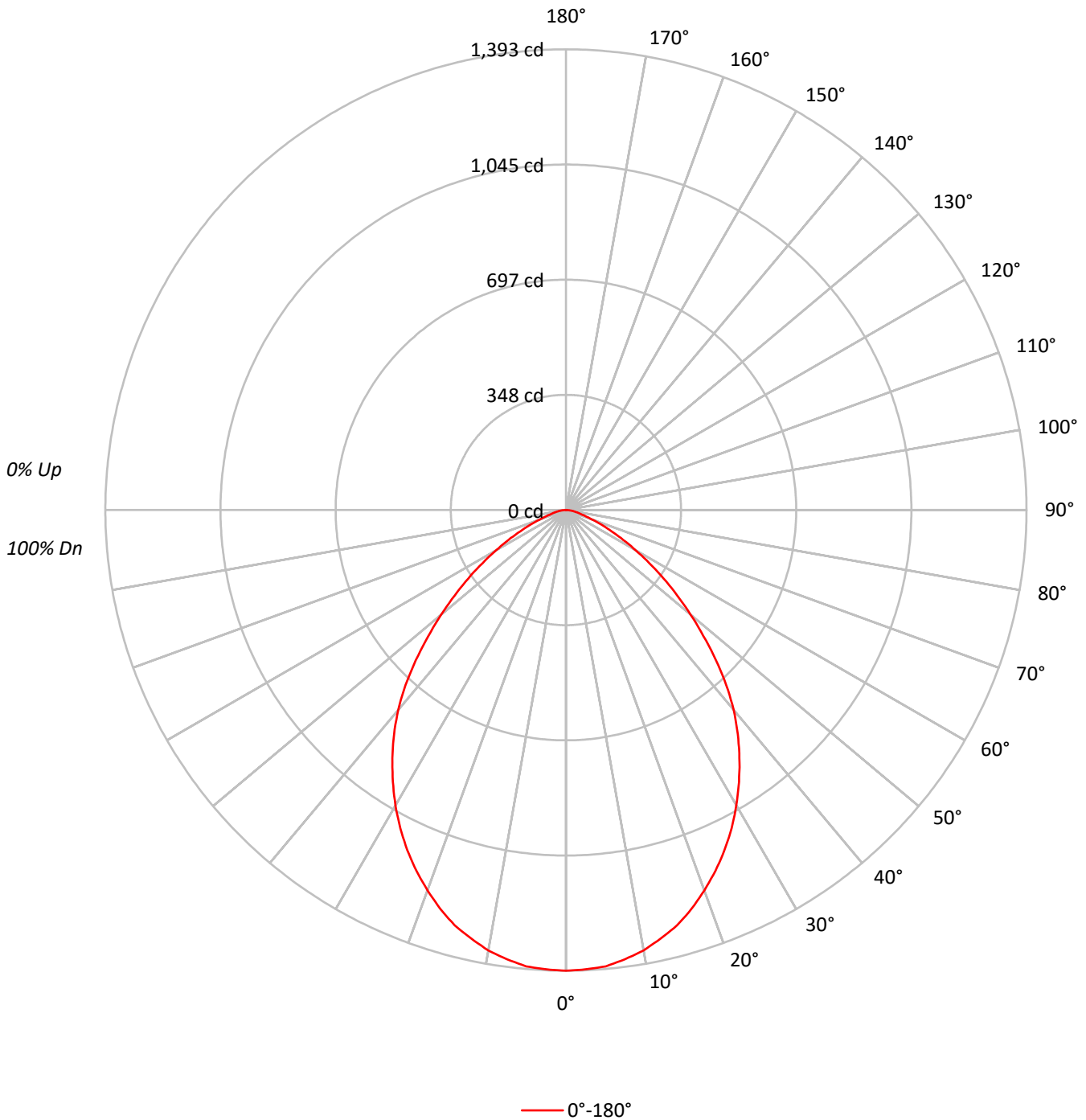
Lumens per Lamp: N/A
 Luminaire Lumens: 2626.1 lumens
 Efficiency: N/A
 Efficacy: 97.6 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.2
 Luminous Opening: Circular (Dia: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 26.9
 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

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77			77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			53
6	76	64	56	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48			48
7	71	59	51	46	70	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35			35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76364
5°	76216
10°	75260
15°	73780
20°	71406
25°	68653
30°	65263
35°	61235
40°	56463
45°	49773
50°	42046
55°	34407
60°	26752
65°	19717
70°	13624
75°	9531
80°	8524
85°	7548

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	5.0
10°-20°	365.2	13.9
20°-30°	521.4	19.9
30°-40°	570.8	21.7
40°-50°	493.4	18.8
50°-60°	323.4	12.3
60°-70°	155.0	5.9
70°-80°	52.4	2.0
80°-90°	13.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1017.7	38.8
0°-40°	1588.4	60.5
0°-60°	2405.3	91.6
0°-90°	2626.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1393	
5°	1385	131
15°	1300	365
25°	1135	521
35°	915	571
45°	642	493
55°	360	323
65°	152	155
75°	45	52
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1393
2.5°	1390
5°	1385
7.5°	1370
10°	1352
12.5°	1327
15°	1300
17.5°	1264
20°	1224
22.5°	1181
25°	1135
27.5°	1085
30°	1031
32.5°	974
35°	915
37.5°	854
40°	789
42.5°	718
45°	642
47.5°	564
50°	493
52.5°	424
55°	360
57.5°	299
60°	244
62.5°	196
65°	152
67.5°	116
70°	85
72.5°	62
75°	45
77.5°	36
80°	27
82.5°	19
85°	12
87.5°	5
90°	0

(END OF REPORT)