

Scaled data based on original data using
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: P645288

Luminaire Tested: **RLNL4079FSD2W1EWH-4000K**

Issue Date: 02/28/2023

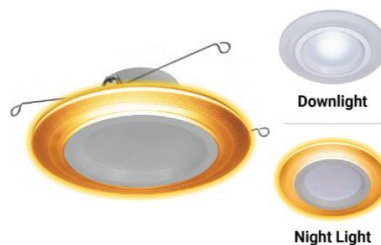
Test Information

Test Method: LM-79-08
Report Number: P645288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ETA23010002P-001)
Test Lab: ETA Testing Technology
Issue Date: 02/28/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RLNL4079FSD2W1EWH-4000K
Description: 4" 90 CRI COLOR TUNING RECESSED DOWNLIGHT RETROFIT DIM TO WARM
FIXTURE w/ NIGHTLIGHT
Light Source: 90 CRI 4000K LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

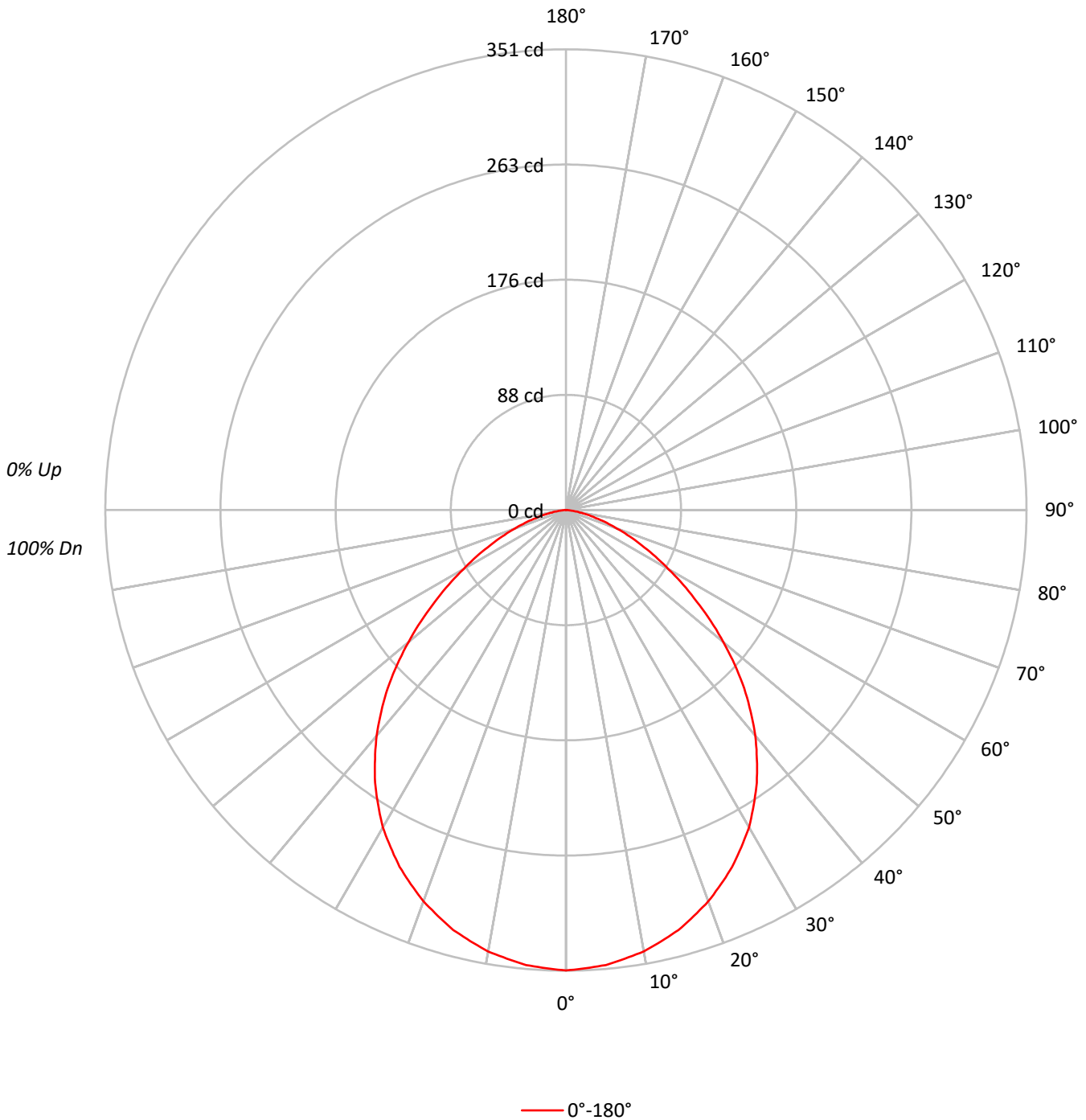
Lumens per Lamp: N/A
Luminaire Lumens: 774.6 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.3
Input Voltage (V): 120
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	43	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43278
5°	43097
10°	42781
15°	42314
20°	41658
25°	40824
30°	39759
35°	38194
40°	36155
45°	33516
50°	30075
55°	26176
60°	22281
65°	18566
70°	15006
75°	11345
80°	7531
85°	4105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	4.3
10°-20°	93.4	12.1
20°-30°	138.0	17.8
30°-40°	158.2	20.4
40°-50°	147.6	19.1
50°-60°	109.5	14.1
60°-70°	64.1	8.3
70°-80°	26.3	3.4
80°-90°	4.5	0.6
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°	264.4	34.1
0°-40°	422.6	54.6
0°-60°	679.8	87.8
0°-90°	774.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	774.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	351	
5°	348	33
15°	331	93
25°	300	138
35°	254	158
45°	192	148
55°	122	110
65°	64	64
75°	24	26
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	350.8
5°	348.0
10°	341.5
15°	331.3
20°	317.3
25°	299.9
30°	279.1
35°	253.6
40°	224.5
45°	192.1
50°	156.7
55°	121.7
60°	90.3
65°	63.6
70°	41.6
75°	23.8
80°	10.6
85°	2.9
90°	0.0

(END OF REPORT)