

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: P588664

Luminaire Tested: **SWL0840B**

Issue Date: 12/1/2021



Test Information

Test Method: LM-79-08
Report Number: P588664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-371-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SWL0840B
Description:
Light Source: (1) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

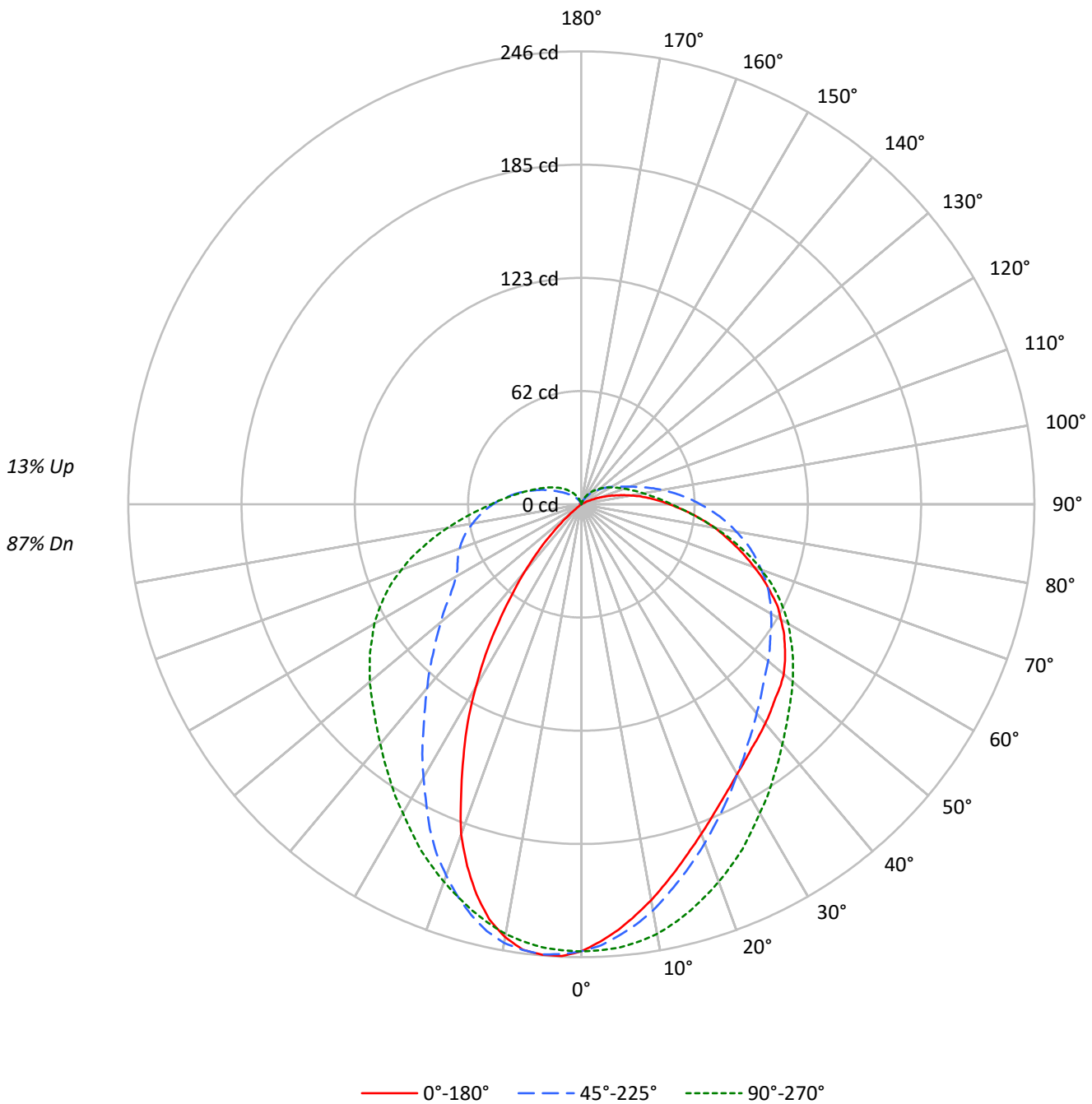
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 800.0 lumens
Efficiency: N/A
Efficacy: 800.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.19 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 0.21' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 1
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: 24 FT

TEST NUMBER: P588664
CATALOG NUMBER: SWL0840B

Luminous Intensity Polar Plot





TEST NUMBER: P588664
 CATALOG NUMBER: SWL0840B

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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	103	97	91	86	98	93	88	84	86	82	79	80	77	74	74	72	69	66
2	92	83	75	69	88	80	73	67	74	68	63	69	64	60	64	60	56	53
3	84	72	63	56	80	70	61	55	65	58	52	60	54	49	56	51	47	44
4	77	64	54	47	73	62	53	46	57	50	44	53	47	42	50	44	40	37
5	70	57	47	41	67	55	46	40	51	44	38	48	41	36	45	39	35	32
6	65	51	42	35	62	50	41	35	46	39	33	43	37	32	41	35	31	28
7	60	46	37	31	58	45	37	31	42	35	29	40	33	28	37	32	27	25
8	56	42	34	28	54	41	33	27	39	31	26	36	30	25	34	29	24	22
9	53	39	31	25	50	38	30	25	36	29	24	34	27	23	32	26	22	20
10	49	36	28	23	47	35	27	22	33	26	22	31	25	21	30	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30112	30112	30112
5°	25328	28112	26825
10°	21447	26159	23451
15°	18320	24163	19741
20°	15895	22308	15920
25°	14011	20615	11878
30°	12601	18980	8528
35°	11531	17628	5608
40°	10746	16454	3326
45°	10057	15518	1579
50°	9531	14812	405
55°	8885	14135	0
60°	8234	13502	0
65°	7522	12737	0
70°	6732	11776	0
75°	5944	10683	0
80°	5223	9526	0
85°	4445	8423	7



TEST NUMBER: P588664
 CATALOG NUMBER: SWL0840B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	2.8
10°-20°	61.9	7.7
20°-30°	86.1	10.8
30°-40°	95.8	12.0
40°-50°	97.3	12.2
50°-60°	95.6	12.0
60°-70°	91.2	11.4
70°-80°	79.6	9.9
80°-90°	62.4	7.8
90°-100°	44.1	5.5
100°-110°	28.1	3.5
110°-120°	16.5	2.1
120°-130°	9.6	1.2
130°-140°	5.4	0.7
140°-150°	2.6	0.3
150°-160°	0.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	170.7	21.3
0°-40°	266.5	33.3
0°-60°	459.4	57.4
0°-90°	692.6	86.6
90°-120°	88.8	11.1
90°-150°	106.3	13.3
90°-180°	107.0	13.4
0°-180°	800.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	243	243	243	243	243	
5°	232	235	242	245	246	22
15°	204	210	228	231	220	57
25°	179	182	207	195	152	83
35°	161	158	182	149	78	102
45°	149	139	159	114	23	115
55°	135	125	140	87	0	121
65°	114	112	118	74	0	112
75°	86	95	89	66	0	91
85°	60	75	60	54	0	52
90°	48	64	49	48	0	26
95°	37	54	41	41	0	29
105°	18	35	29	28	1	20
115°	5	23	21	18	1	5
125°	0	16	16	10	0	0
135°	0	10	11	6	1	0
145°	0	6	7	4	1	0
155°	0	2	4	1	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P588664
 CATALOG NUMBER: SWL0840B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	242.8	242.8	242.8	242.8	242.8	242.8	242.8	242.8	242.8
2.5°	237.7	238.9	239.9	240.9	242.5	243.8	244.5	245.3	245.6
5°	231.9	233.2	235.1	238.0	241.6	243.5	245.4	246.0	245.6
7.5°	225.2	226.8	230.0	234.4	239.6	242.9	244.1	244.4	244.0
10°	218.3	220.2	224.0	230.1	237.0	241.1	241.9	240.3	238.7
12.5°	211.0	212.9	216.9	224.9	233.0	238.3	237.4	233.8	230.9
15°	203.8	205.4	209.9	218.2	228.5	233.3	231.0	223.7	219.6
17.5°	196.8	198.2	202.9	211.6	223.4	228.5	223.3	212.2	206.1
20°	190.5	191.5	195.9	205.2	218.2	223.1	214.5	199.0	190.8
22.5°	184.5	185.1	188.8	198.4	212.5	217.2	205.5	183.8	170.7
25°	178.7	179.4	182.2	191.5	206.8	211.0	194.6	167.8	151.5
27.5°	173.8	173.9	175.8	184.1	200.1	204.5	182.5	149.9	133.7
30°	169.2	168.7	169.2	177.3	193.7	198.1	171.4	133.7	114.5
32.5°	165.2	164.6	163.7	170.3	188.0	192.1	160.8	117.5	96.7
35°	161.4	160.4	157.9	163.1	181.6	186.6	149.4	101.8	78.5
37.5°	158.5	157.0	153.1	156.7	175.8	181.6	139.5	87.7	62.0
40°	155.4	153.7	148.1	150.0	169.8	176.8	130.2	73.8	48.1
42.5°	152.2	150.6	143.8	143.8	164.4	172.9	121.9	62.0	35.1
45°	149.0	148.0	139.4	137.9	159.2	169.2	113.6	51.1	23.4
47.5°	146.5	145.1	135.7	132.1	154.5	166.5	106.3	40.5	13.4
50°	143.5	141.9	132.4	126.6	149.9	163.9	99.6	32.5	6.1
52.5°	139.4	139.1	128.9	121.3	144.9	161.2	93.5	25.8	1.3
55°	134.9	134.9	125.3	115.9	140.0	158.3	87.2	21.3	0.0
57.5°	130.4	131.1	122.3	111.3	134.6	155.1	82.3	19.8	0.0
60°	125.1	126.9	119.0	106.9	129.8	152.1	78.5	18.9	0.0
62.5°	120.2	122.2	115.6	102.8	123.9	148.3	75.9	18.2	0.0
65°	113.5	116.8	112.2	98.3	117.8	143.0	74.1	17.5	0.0
67.5°	107.1	111.7	108.4	94.2	111.4	137.8	72.4	16.5	0.0
70°	100.1	105.9	104.0	89.9	103.8	132.0	70.3	15.9	0.0
72.5°	93.2	99.8	99.8	85.9	97.0	125.6	68.2	15.1	0.0
75°	86.4	93.7	95.4	81.7	88.8	119.9	65.7	14.3	0.0
77.5°	79.8	87.5	90.6	77.6	81.3	113.9	62.9	13.5	0.0
80°	73.6	81.4	85.5	73.3	73.8	107.5	60.0	13.0	0.0
82.5°	66.7	75.3	80.4	69.2	66.6	99.9	57.1	12.2	0.0
85°	60.2	68.9	75.4	64.8	60.0	92.8	54.2	11.5	0.1
87.5°	53.6	62.8	69.9	60.3	54.0	85.2	51.1	10.9	0.0
90°	47.9	57.2	64.5	56.4	48.9	77.9	47.9	10.3	0.1
92.5°	42.5	51.6	59.7	51.7	44.9	70.5	44.9	9.8	0.3
95°	37.4	46.3	54.5	47.9	40.6	63.5	41.2	9.2	0.1
97.5°	32.5	40.9	49.5	44.0	37.3	56.8	38.2	8.6	0.4
100°	27.5	36.3	44.6	40.8	34.2	50.2	35.0	8.0	0.6
102.5°	22.9	31.3	40.1	37.6	31.6	44.4	31.9	7.6	0.6
105°	18.5	26.9	35.4	35.0	29.0	39.2	28.5	7.0	0.7
107.5°	14.9	22.6	31.5	32.6	26.8	34.2	25.5	6.6	0.7
110°	10.9	18.6	28.1	30.6	24.9	30.0	22.9	6.0	0.9



TEST NUMBER: P588664
 CATALOG NUMBER: SWL0840B

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	7.6	15.3	25.1	28.3	23.0	26.4	20.2	5.4	0.9
115°	4.8	12.4	22.7	26.2	21.3	23.0	17.6	4.7	0.9
117.5°	2.6	9.9	20.8	24.3	19.8	20.4	15.6	4.4	0.9
120°	1.0	8.2	18.9	22.3	18.4	18.1	13.5	3.6	0.7
122.5°	0.1	7.3	17.5	20.5	17.0	16.2	12.1	3.2	0.6
125°	0.1	6.3	15.6	18.9	15.7	14.3	10.5	2.8	0.4
127.5°	0.1	5.7	14.1	17.2	14.6	13.0	9.3	2.3	0.4
130°	0.0	4.8	12.4	15.4	13.3	11.4	8.2	2.0	0.3
132.5°	0.0	4.2	11.1	14.0	12.2	10.5	7.3	1.9	0.4
135°	0.0	3.6	10.0	12.7	11.2	9.5	6.4	1.7	0.7
137.5°	0.0	3.1	8.7	11.2	10.0	8.3	5.5	1.5	0.6
140°	0.0	2.5	7.7	10.0	9.2	7.4	4.8	1.3	0.7
142.5°	0.0	2.2	6.7	8.6	8.0	6.6	4.1	1.2	0.7
145°	0.1	1.7	5.7	7.6	7.1	5.8	3.6	1.0	0.7
147.5°	0.0	1.2	4.5	6.4	6.1	5.0	2.9	0.7	0.6
150°	0.0	0.9	3.8	5.4	5.2	4.1	2.3	0.7	0.6
152.5°	0.0	0.6	2.9	4.4	4.4	3.3	1.9	0.6	0.6
155°	0.0	0.4	2.3	3.5	3.5	2.6	1.3	0.6	0.6
157.5°	0.1	0.4	1.7	2.8	2.8	2.0	0.9	0.6	0.6
160°	0.0	0.3	1.2	1.9	1.9	1.5	0.6	0.3	0.4
162.5°	0.0	0.1	0.6	1.2	1.2	0.7	0.3	0.1	0.1
165°	0.0	0.1	0.1	0.6	0.4	0.3	0.0	0.1	0.1
167.5°	0.0	0.1	0.0	0.3	0.1	0.1	0.0	0.1	0.1
170°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
172.5°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
175°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
177.5°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)