

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: PORTFOLIO

Report Number: P251049

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70940 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5893.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

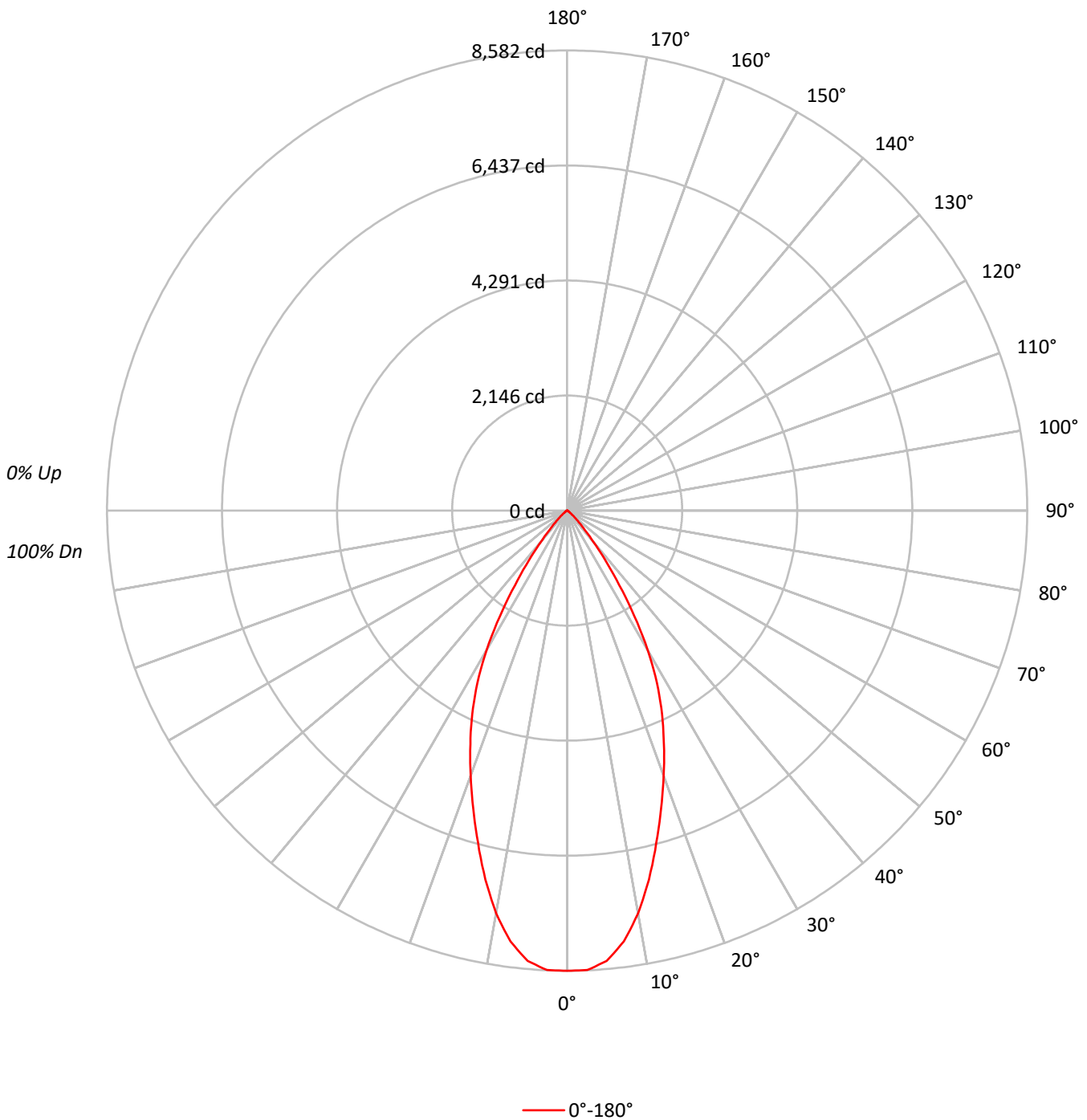
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251049

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBN0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P251049

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBN0WMH

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	264643
5°	260952
10°	238767
15°	204997
20°	172622
25°	142592
30°	106980
35°	63762
40°	30372
45°	13231
50°	5973
55°	2624
60°	1554
65°	854
70°	884
75°	0
80°	337
85°	1415



TEST NUMBER: P251049

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBN0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.5	13.2
10°-20°	1789.3	30.4
20°-30°	1898.4	32.2
30°-40°	1083.2	18.4
40°-50°	268.5	4.6
50°-60°	52.7	0.9
60°-70°	15.8	0.3
70°-80°	3.5	0.1
80°-90°	3.0	0.1
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°	4466.3	75.8
0°-40°	5549.5	94.2
0°-60°	5870.7	99.6
0°-90°	5893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5893.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8582	
5°	8430	779
15°	6421	1789
25°	4191	1898
35°	1694	1083
45°	303	269
55°	49	53
65°	12	16
75°	0	4
85°	4	3
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P251049

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBN0WMH

CANDELA DISTRIBUTION (FULL):

0°	
0°	8582.2
2.5°	8578.1
5°	8430.3
7.5°	8105.5
10°	7625.4
12.5°	7045.7
15°	6421.4
17.5°	5826.4
20°	5260.4
22.5°	4716.1
25°	4190.9
27.5°	3626.8
30°	3004.5
32.5°	2335.5
35°	1693.8
37.5°	1166.9
40°	754.5
42.5°	478.4
45°	303.4
47.5°	198.5
50°	124.5
52.5°	75.7
55°	48.8
57.5°	39.0
60°	25.2
62.5°	23.3
65°	11.7
67.5°	11.7
70°	9.8
72.5°	5.7
75°	0.0
77.5°	1.9
80°	1.9
82.5°	4.0
85°	4.0
87.5°	1.9
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P251049

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBN0WMH

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)