

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: P244350

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10940 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

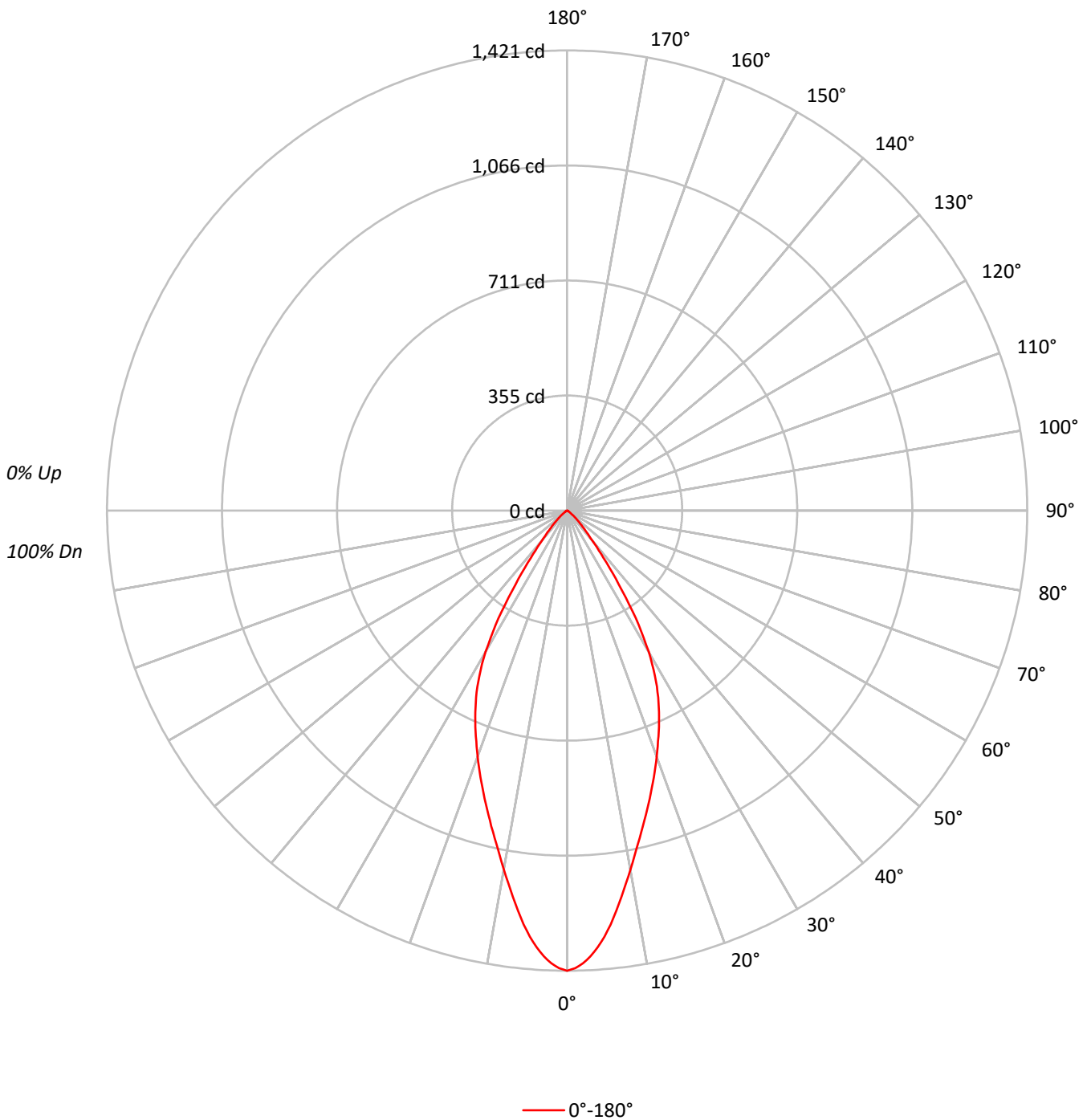
Lumens per Lamp: N/A
Luminaire Lumens: 931.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 10.2
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: P244350
CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P244350

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBN0H

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	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	81	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43825
5°	40878
10°	35235
15°	30494
20°	26528
25°	22796
30°	17914
35°	10450
40°	4822
45°	2494
50°	1252
55°	608
60°	308
65°	182
70°	81
75°	71
80°	53
85°	0



TEST NUMBER: P244350

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBN0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	12.8
10°-20°	267.1	28.7
20°-30°	303.7	32.6
30°-40°	178.3	19.2
40°-50°	47.9	5.1
50°-60°	11.3	1.2
60°-70°	2.6	0.3
70°-80°	0.6	0.1
80°-90°	0.0	0.0
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°	690.2	74.1
0°-40°	868.6	93.3
0°-60°	927.8	99.7
0°-90°	931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	931.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1421	
5°	1321	120
15°	955	267
25°	670	304
35°	278	178
45°	57	48
55°	11	11
65°	2	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P244350

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBN0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	1421.2
1°	1413.3
2°	1398.9
3°	1378.4
4°	1352.0
5°	1320.6
6°	1285.0
7°	1244.8
8°	1204.5
9°	1164.0
10°	1125.3
11°	1087.6
12°	1052.1
13°	1019.0
14°	986.0
15°	955.2
16°	925.0
17°	895.2
18°	866.2
19°	837.0
20°	808.4
21°	779.8
22°	752.4
23°	725.4
24°	697.7
25°	670.0
26°	641.4
27°	610.3
28°	577.6
29°	541.7
30°	503.1
32.5°	394.6
35°	277.6
37.5°	183.0
40°	119.8
42.5°	82.7
45°	57.2
47.5°	39.3
50°	26.1
52.5°	17.0
55°	11.3
57.5°	7.5
60°	5.0
62.5°	3.5
65°	2.5



TEST NUMBER: P244350

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBN0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
70°	0.9
72.5°	0.6
75°	0.6
77.5°	0.3
80°	0.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)