

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: P250346

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100940 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7853.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

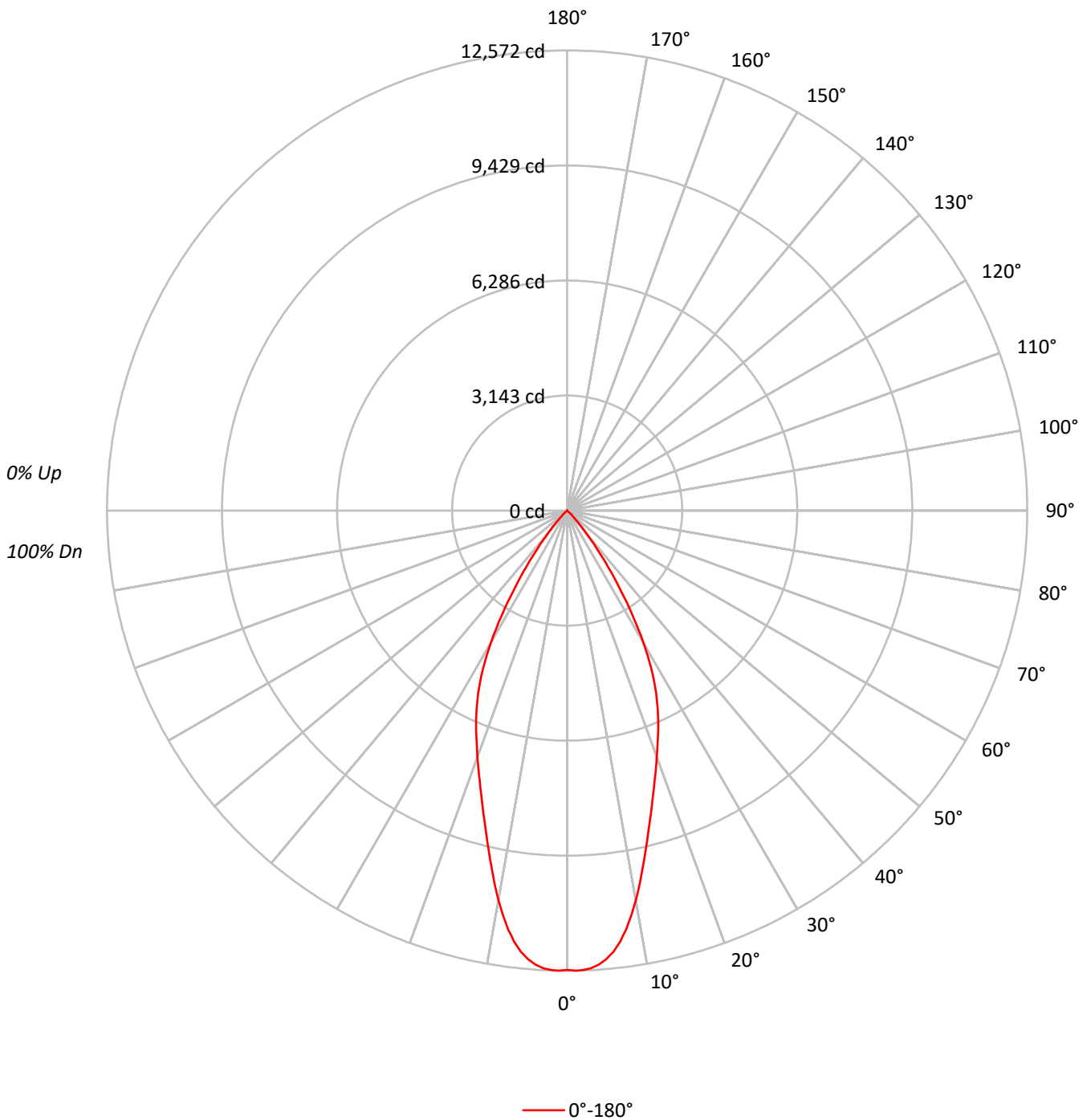
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250346

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBN0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P250346

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBN0GPH

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	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	386943
5°	380760
10°	338298
15°	279065
20°	235030
25°	198235
30°	148427
35°	83999
40°	33214
45°	8918
50°	1708
55°	0
60°	247
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250346

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBN0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1126.5	14.3
10°-20°	2448.3	31.2
20°-30°	2628.4	33.5
30°-40°	1420.6	18.1
40°-50°	221.6	2.8
50°-60°	6.1	0.1
60°-70°	1.5	0.0
70°-80°	0.0	0.0
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°	6203.2	79.0
0°-40°	7623.8	97.1
0°-60°	7851.5	100.0
0°-90°	7853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7853.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12548	
5°	12301	###
15°	8742	2448
25°	5826	2628
35°	2231	1421
45°	204	222
55°	0	6
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250346

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBN0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	12548.3
1°	12572.1
2°	12560.3
3°	12517.3
4°	12434.7
5°	12300.8
6°	12116.6
7°	11868.7
8°	11558.4
9°	11201.2
10°	10804.1
11°	10387.5
12°	9955.4
13°	9523.6
14°	9122.5
15°	8741.5
16°	8391.8
17°	8053.9
18°	7739.6
19°	7445.3
20°	7162.2
21°	6887.1
22°	6627.6
23°	6368.7
24°	6097.6
25°	5826.3
26°	5551.2
27°	5237.1
28°	4891.2
29°	4538.0
30°	4168.5
31°	3771.8
32°	3374.6
33°	2981.9
34°	2585.1
35°	2231.4
37.5°	1426.1
40°	825.1
42.5°	440.2
45°	204.5
47.5°	110.2
50°	35.6
52.5°	4.0
55°	0.0
57.5°	4.0



TEST NUMBER: P250346

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBN0GPH

CANDELA DISTRIBUTION (continued):

	0°
60°	4.0
62.5°	0.0
65°	0.0
67.5°	4.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)