

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: P246419

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201569)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50850 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

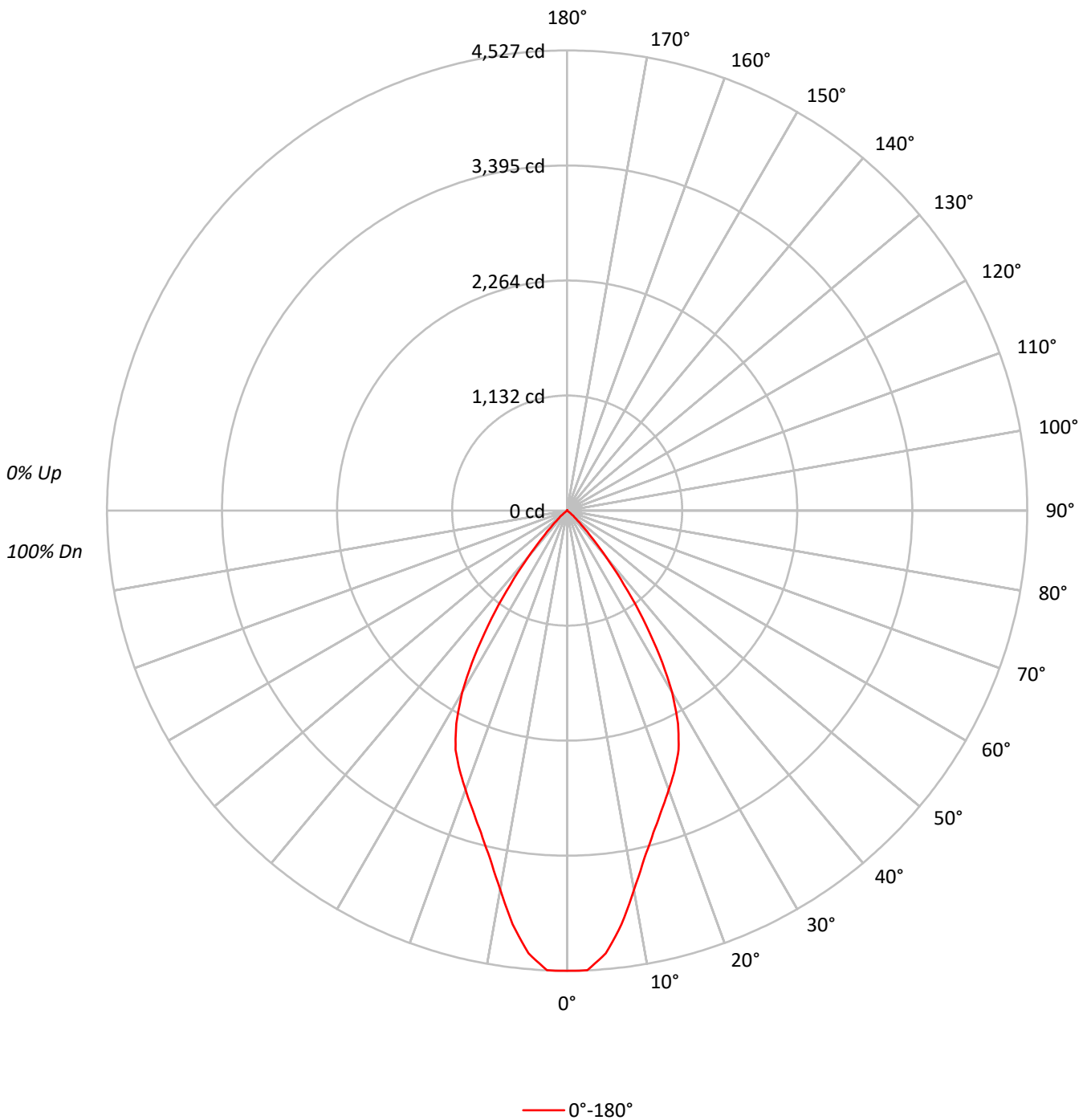
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246419

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0B

Luminous Intensity Polar Plot





TEST NUMBER: P246419

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0B

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	108	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	93	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	139608
5°	135338
10°	118532
15°	104660
20°	95886
25°	88316
30°	73514
35°	48825
40°	23754
45°	8578
50°	2600
55°	177
60°	0
65°	117
70°	0
75°	0
80°	284
85°	0



TEST NUMBER: P246419

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.9	11.4
10°-20°	925.0	26.5
20°-30°	1170.7	33.5
30°-40°	803.1	23.0
40°-50°	182.6	5.2
50°-60°	9.0	0.3
60°-70°	0.4	0.0
70°-80°	0.6	0.0
80°-90°	0.7	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°	2493.6	71.4
0°-40°	3296.7	94.5
0°-60°	3488.4	100.0
0°-90°	3490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4527	
5°	4372	398
15°	3278	925
25°	2596	1171
35°	1297	803
45°	197	183
55°	3	9
65°	2	0
75°	0	1
85°	0	0
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: P246419

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	4527.4
2.5°	4527.4
5°	4372.2
7.5°	4105.4
10°	3785.5
12.5°	3504.0
15°	3278.4
17.5°	3089.7
20°	2922.0
22.5°	2763.5
25°	2595.7
27.5°	2362.1
30°	2064.6
32.5°	1690.5
35°	1297.0
37.5°	916.3
40°	590.1
42.5°	347.2
45°	196.7
47.5°	105.5
50°	54.2
52.5°	9.6
55°	3.3
57.5°	1.6
60°	0.0
62.5°	0.0
65°	1.6
67.5°	0.0
70°	0.0
72.5°	1.6
75°	0.0
77.5°	0.0
80°	1.6
82.5°	0.0
85°	0.0
87.5°	1.6
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: P246419

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0B

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)