

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: P243971

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBM0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50850 8LBM0LI
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.72
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

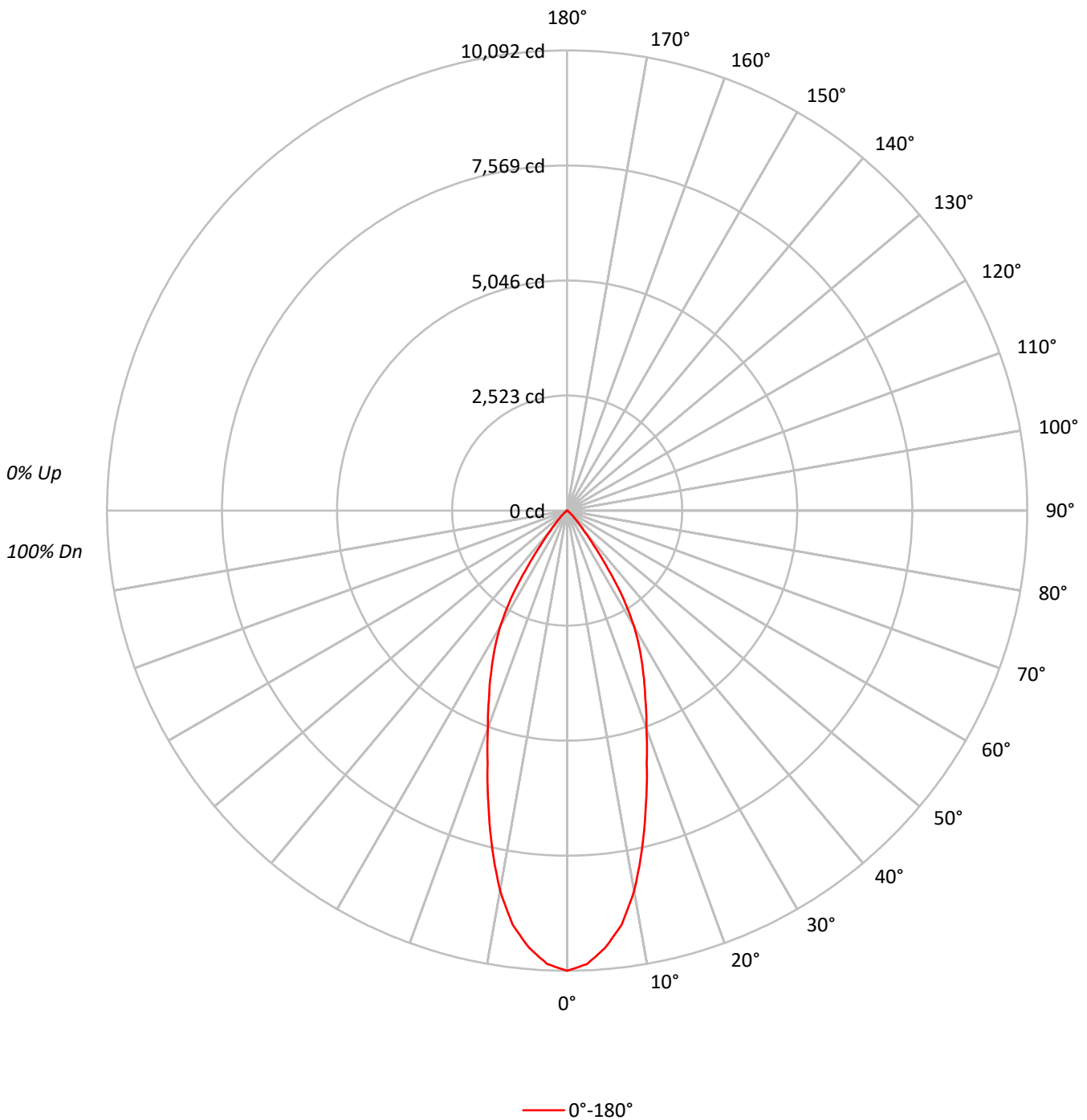
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243971

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0LI

Luminous Intensity Polar Plot





TEST NUMBER: P243971

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0LI

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	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	73	80	75	72		79	75	72		77	74	71	70
7	86	78	72	69	85	77	72	68	76	71	68		75	71	68		74	70	67	66
8	83	74	68	65	82	73	68	65	72	68	64		71	67	64		70	67	64	62
9	79	70	65	61	78	70	65	61	69	64	61		68	64	61		67	63	60	59
10	76	67	62	58	75	67	61	58	66	61	58		65	61	58		64	60	58	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	311194
5°	297819
10°	265138
15°	212998
20°	166827
25°	134698
30°	104374
35°	59448
40°	22425
45°	9668
50°	3891
55°	1452
60°	777
65°	525
70°	325
75°	214
80°	0
85°	0



TEST NUMBER: P243971

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.1	15.3
10°-20°	1852.7	32.0
20°-30°	1813.0	31.3
30°-40°	1003.1	17.3
40°-50°	194.1	3.4
50°-60°	29.8	0.5
60°-70°	7.3	0.1
70°-80°	1.9	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°	4548.8	78.6
0°-40°	5551.9	96.0
0°-60°	5775.8	99.8
0°-90°	5785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5785.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10092	
5°	9621	883
15°	6672	1853
25°	3959	1813
35°	1579	1003
45°	222	194
55°	27	30
65°	7	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P243971

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBM0LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	10091.8
2.5°	9953.0
5°	9621.3
7.5°	9156.2
10°	8467.6
12.5°	7596.8
15°	6672.0
17.5°	5804.9
20°	5083.8
22.5°	4487.1
25°	3958.9
27.5°	3461.3
30°	2931.3
32.5°	2309.3
35°	1579.2
37.5°	950.1
40°	557.1
42.5°	347.9
45°	221.7
47.5°	138.8
50°	81.1
52.5°	45.1
55°	27.0
57.5°	16.2
60°	12.6
62.5°	9.0
65°	7.2
67.5°	5.4
70°	3.6
72.5°	1.8
75°	1.8
77.5°	1.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)