

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: P246251

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-47)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50827 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3287.0 lumens  
Efficiency: N/A  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

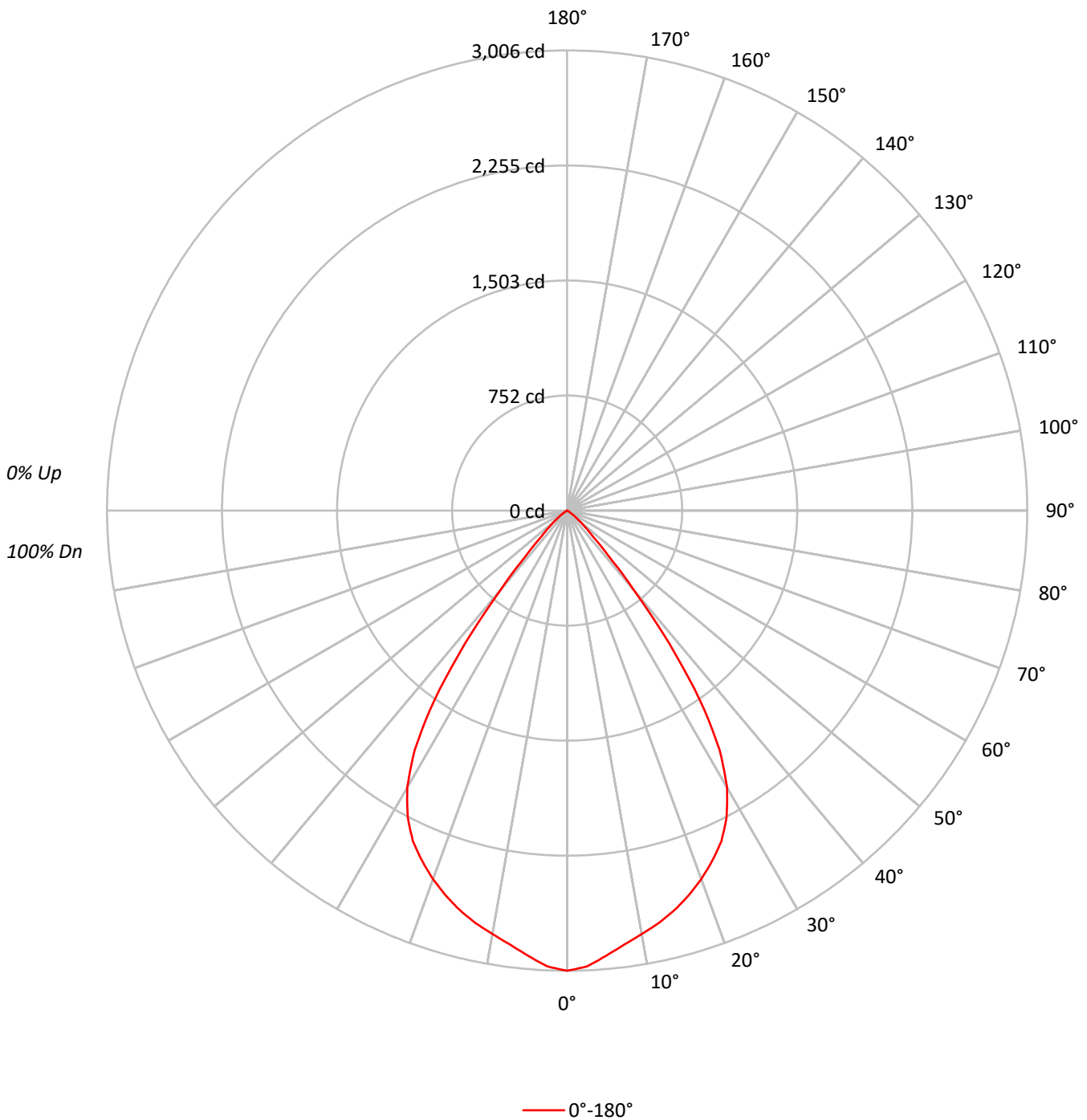
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	113	110	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84		89	85	82		86	84	81	80
4	96	88	83	78	94	87	82	78	85	80	77		83	79	76		81	78	75	74
5	91	82	76	72	89	81	76	71	80	75	71		78	74	70		76	73	70	68
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		72	68	65	63
7	82	72	66	61	80	71	65	61	70	64	61		69	64	60		67	63	60	58
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64	59	56	54
9	73	63	57	53	72	63	57	53	62	56	52		61	56	52		60	55	52	51
10	70	59	53	49	68	59	53	49	58	53	49		57	52	49		57	52	49	47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	92688
5°	90355
10°	87952
15°	86313
20°	84070
25°	81090
30°	74400
35°	57046
40°	27143
45°	10335
50°	5042
55°	2064
60°	512
65°	124
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.2	8.4
10°-20°	760.8	23.1
20°-30°	1086.4	33.1
30°-40°	900.4	27.4
40°-50°	222.0	6.8
50°-60°	40.0	1.2
60°-70°	2.2	0.1
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°	2122.4	64.6
0°-40°	3022.8	92.0
0°-60°	3284.7	99.9
0°-90°	3287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3287.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3006	
5°	2919	275
15°	2704	761
25°	2383	1086
35°	1515	900
45°	237	222
55°	38	40
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3005.8
2.5°	2980.8
5°	2919.0
7.5°	2858.9
10°	2808.9
12.5°	2760.5
15°	2703.7
17.5°	2637.0
20°	2561.9
22.5°	2476.7
25°	2383.3
27.5°	2256.4
30°	2089.5
32.5°	1854.2
35°	1515.4
37.5°	1094.8
40°	674.3
42.5°	392.2
45°	237.0
47.5°	156.9
50°	105.1
52.5°	68.4
55°	38.4
57.5°	18.4
60°	8.3
62.5°	3.3
65°	1.7
67.5°	0.0
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)