

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: P245549

Luminaire Tested: **LSR8B50D010 EC8B50840 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50840 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4898.0 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

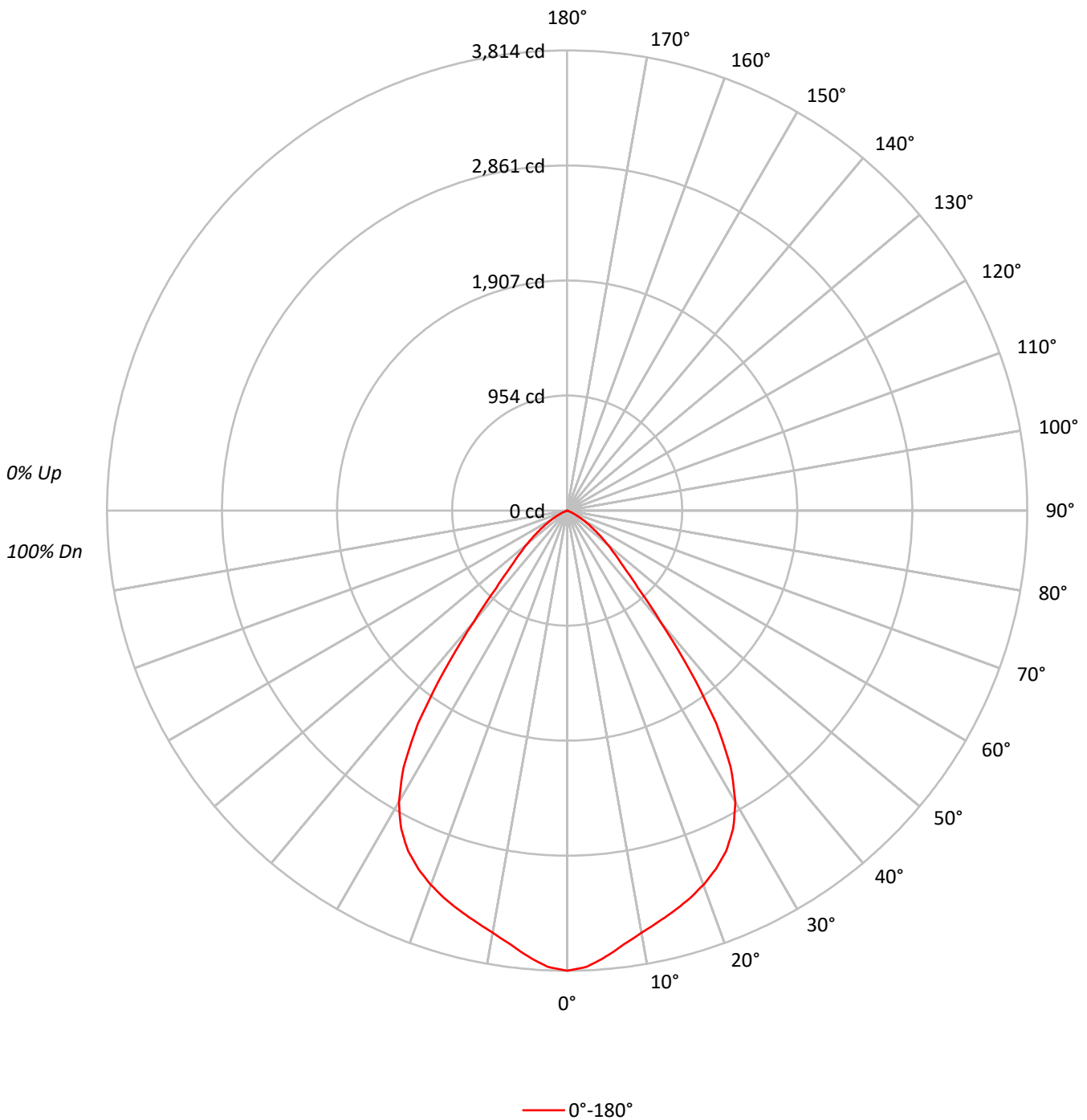
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81		86	82	79		84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	66		74	70	66		73	69	65	64
6	83	73	66	61	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		65	59	56		63	59	55	54
8	74	63	56	52	73	63	56	52	61	56	51		60	55	51		59	55	51	49
9	70	59	52	48	69	58	52	48	57	52	48		57	51	47		56	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44		53	48	44		52	47	44	43

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

	0°
0°	117604
5°	114824
10°	111227
15°	109618
20°	108327
25°	105999
30°	99282
35°	81071
40°	48397
45°	29070
50°	20950
55°	14258
60°	8943
65°	4385
70°	1118
75°	417
80°	320
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.0	7.1
10°-20°	969.0	19.8
20°-30°	1423.0	29.1
30°-40°	1290.0	26.3
40°-50°	552.2	11.3
50°-60°	244.3	5.0
60°-70°	65.2	1.3
70°-80°	5.1	0.1
80°-90°	0.2	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°	2741.0	56.0
0°-40°	4031.0	82.3
0°-60°	4827.5	98.6
0°-90°	4898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3814	
5°	3710	349
15°	3434	969
25°	3115	1423
35°	2154	1290
45°	667	552
55°	265	244
65°	60	65
75°	4	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3813.8
2.5°	3783.8
5°	3709.5
7.5°	3624.6
10°	3552.2
12.5°	3492.0
15°	3433.7
17.5°	3371.8
20°	3301.1
22.5°	3218.0
25°	3115.4
27.5°	2977.5
30°	2788.3
32.5°	2523.1
35°	2153.6
37.5°	1669.1
40°	1202.3
42.5°	868.1
45°	666.6
47.5°	537.5
50°	436.7
52.5°	346.6
55°	265.2
57.5°	198.0
60°	145.0
62.5°	100.8
65°	60.1
67.5°	26.5
70°	12.4
72.5°	7.1
75°	3.5
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)