

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: P246587

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50940 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4998.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

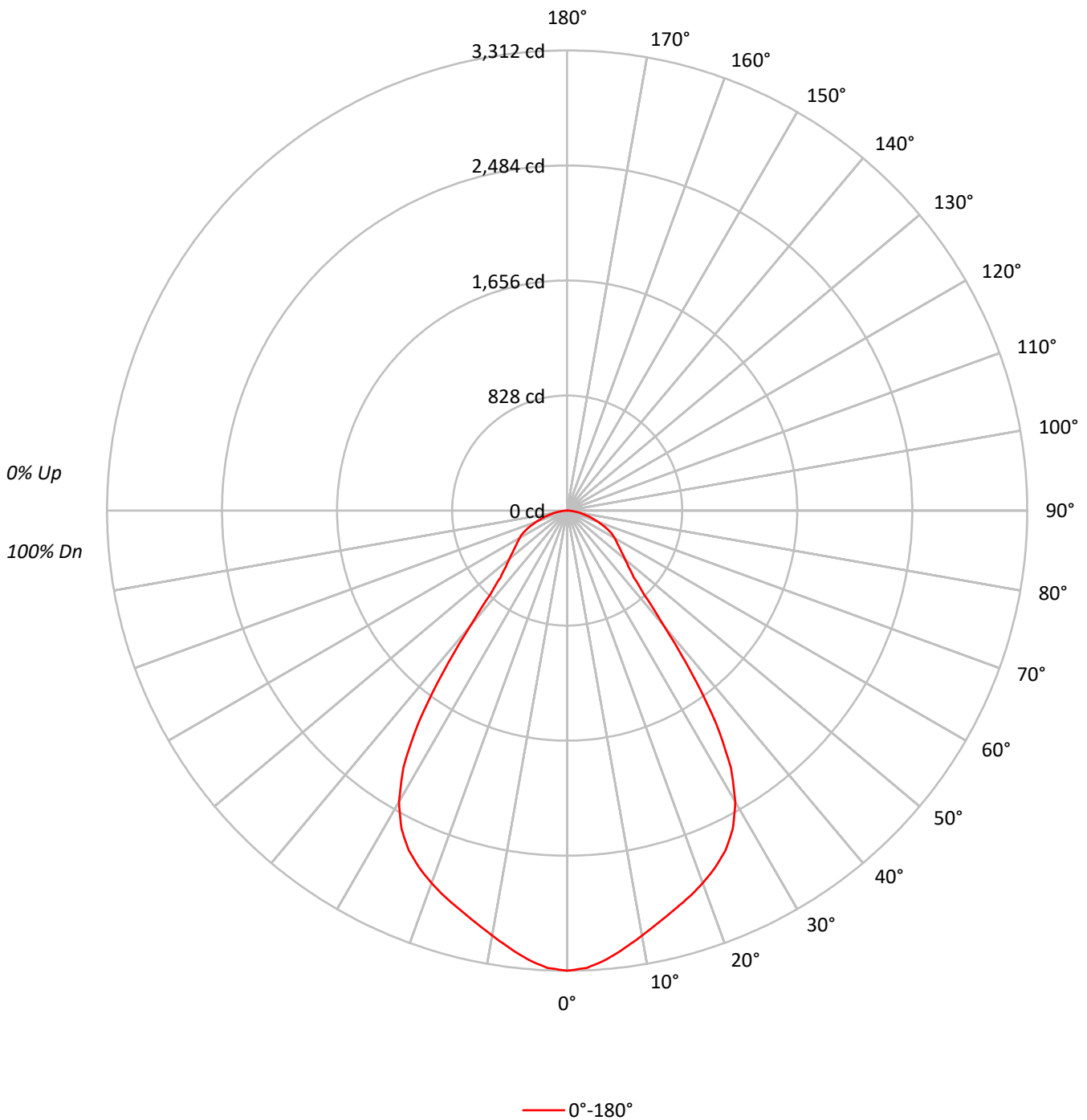
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°
0°	102114
5°	100397
10°	97236
15°	94990
20°	93635
25°	91797
30°	86190
35°	70357
40°	43583
45°	29519
50°	26006
55°	24542
60°	24342
65°	23597
70°	21151
75°	18324
80°	15485
85°	12348



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.1	6.1
10°-20°	840.4	16.8
20°-30°	1232.4	24.7
30°-40°	1126.5	22.5
40°-50°	557.7	11.2
50°-60°	412.4	8.3
60°-70°	317.0	6.3
70°-80°	165.3	3.3
80°-90°	41.2	0.8
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°	2377.9	47.6
0°-40°	3504.4	70.1
0°-60°	4474.6	89.5
0°-90°	4998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4998.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3312	
5°	3243	305
15°	2976	840
25°	2698	1232
35°	1869	1127
45°	677	558
55°	456	412
65°	323	317
75°	154	165
85°	35	41
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3311.5
2.5°	3294.1
5°	3243.4
7.5°	3175.2
10°	3105.4
12.5°	3037.3
15°	2975.5
17.5°	2916.8
20°	2853.4
22.5°	2782.1
25°	2698.0
27.5°	2582.3
30°	2420.6
32.5°	2193.9
35°	1869.0
37.5°	1466.3
40°	1082.7
42.5°	819.6
45°	676.9
47.5°	599.2
50°	542.1
52.5°	496.2
55°	456.5
57.5°	423.3
60°	394.7
62.5°	364.6
65°	323.4
67.5°	279.0
70°	234.6
72.5°	193.4
75°	153.8
77.5°	118.9
80°	87.2
82.5°	60.2
85°	34.9
87.5°	12.7
90°	0.0

(END OF REPORT)