

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: P245327

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-15)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50835 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6149.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

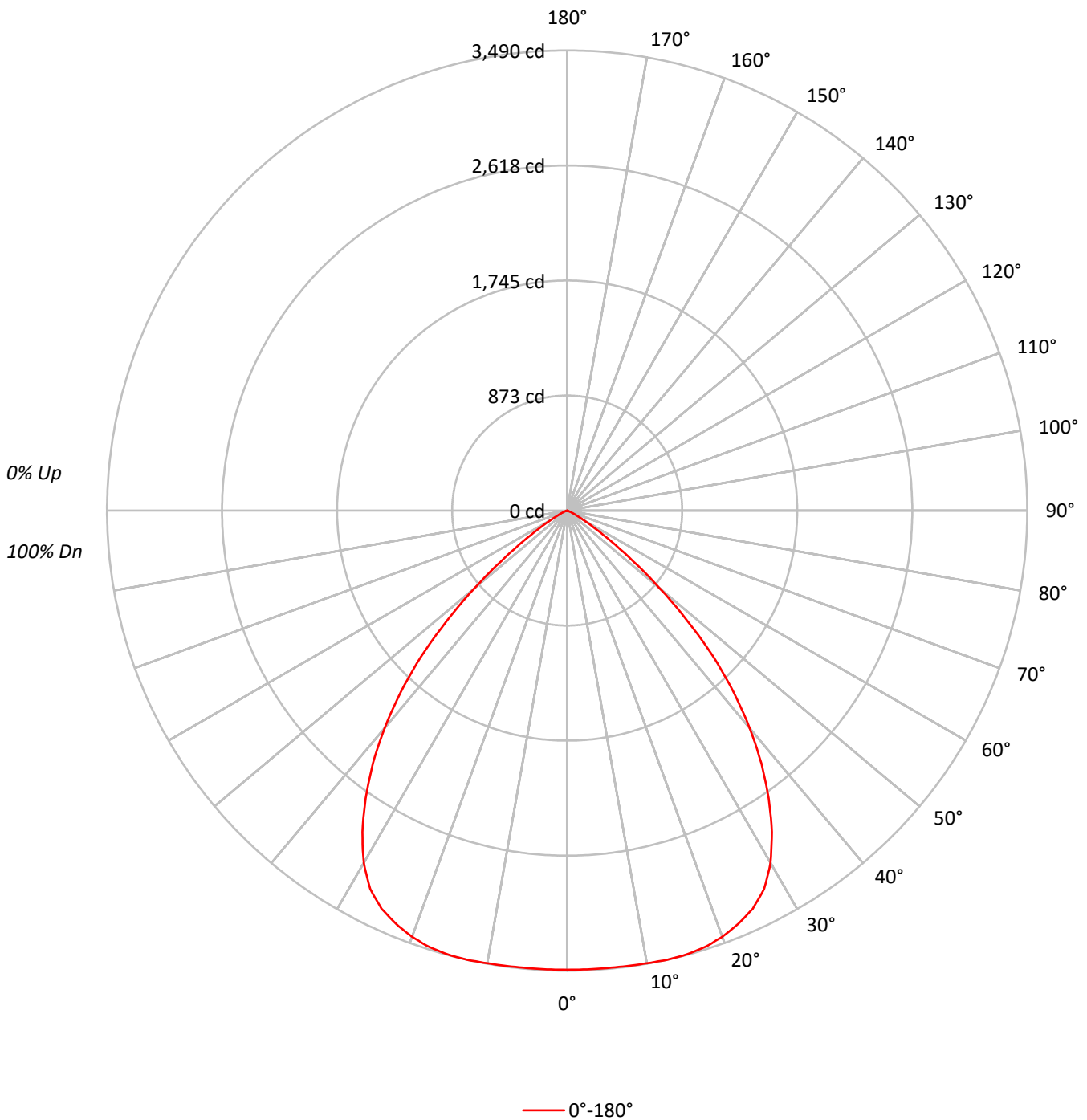
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

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

	0°
0°	107400
5°	107810
10°	109166
15°	111300
20°	112891
25°	113355
30°	109882
35°	100292
40°	86755
45°	68296
50°	44053
55°	21623
60°	8893
65°	3896
70°	1127
75°	429
80°	320
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.6	5.4
10°-20°	985.3	16.0
20°-30°	1525.5	24.8
30°-40°	1652.6	26.9
40°-50°	1189.2	19.3
50°-60°	397.9	6.5
60°-70°	60.1	1.0
70°-80°	5.2	0.1
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°	2843.4	46.2
0°-40°	4495.9	73.1
0°-60°	6083.0	98.9
0°-90°	6149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6149.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3483	
5°	3483	333
15°	3486	985
25°	3332	1525
35°	2664	1653
45°	1566	1189
55°	402	398
65°	53	60
75°	4	5
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3482.9
2.5°	3482.9
5°	3482.9
7.5°	3484.7
10°	3486.4
12.5°	3490.0
15°	3486.4
17.5°	3472.2
20°	3440.2
22.5°	3392.1
25°	3331.6
27.5°	3235.5
30°	3086.0
32.5°	2890.2
35°	2664.2
37.5°	2420.4
40°	2155.2
42.5°	1870.5
45°	1566.1
47.5°	1236.9
50°	918.3
52.5°	630.0
55°	402.2
57.5°	240.3
60°	144.2
62.5°	87.2
65°	53.4
67.5°	26.7
70°	12.5
72.5°	5.3
75°	3.6
77.5°	3.6
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)