

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: P245771

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-16)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50850 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5523.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

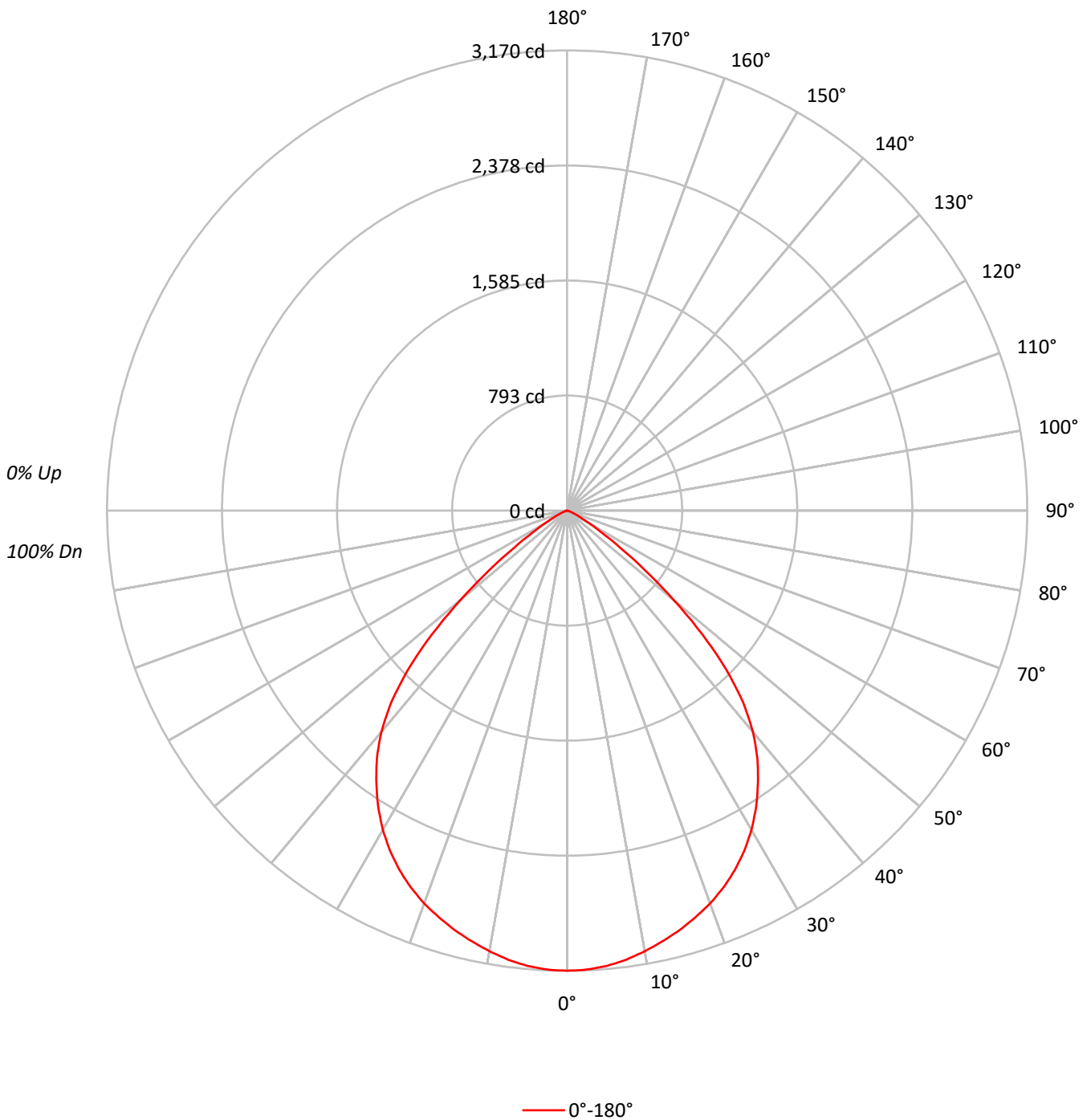
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	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	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°
0°	97757
5°	97462
10°	96500
15°	95511
20°	94508
25°	92961
30°	90420
35°	86299
40°	80238
45°	67751
50°	45996
55°	24031
60°	10780
65°	5261
70°	2110
75°	1287
80°	959
85°	637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.4	5.4
10°-20°	843.9	15.3
20°-30°	1256.2	22.7
30°-40°	1428.0	25.9
40°-50°	1167.7	21.1
50°-60°	435.3	7.9
60°-70°	79.6	1.4
70°-80°	12.3	0.2
80°-90°	1.7	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°	2398.4	43.4
0°-40°	3826.4	69.3
0°-60°	5429.4	98.3
0°-90°	5523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5523.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3170	
5°	3149	298
15°	2992	844
25°	2732	1256
35°	2292	1428
45°	1554	1168
55°	447	435
65°	72	80
75°	11	12
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3170.2
2.5°	3164.8
5°	3148.6
7.5°	3119.7
10°	3081.9
12.5°	3038.6
15°	2991.8
17.5°	2937.7
20°	2880.0
22.5°	2811.5
25°	2732.2
27.5°	2642.1
30°	2539.4
32.5°	2422.3
35°	2292.5
37.5°	2153.7
40°	1993.3
42.5°	1795.1
45°	1553.6
47.5°	1263.4
50°	958.8
52.5°	675.9
55°	447.0
57.5°	281.2
60°	174.8
62.5°	111.7
65°	72.1
67.5°	41.5
70°	23.4
72.5°	14.4
75°	10.8
77.5°	7.2
80°	5.4
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0

(END OF REPORT)