

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: P243947

Luminaire Tested: **LD8B50D010 ER8B50827 8LBMOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-11)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50827 8LBM0LI  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5358.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.72  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

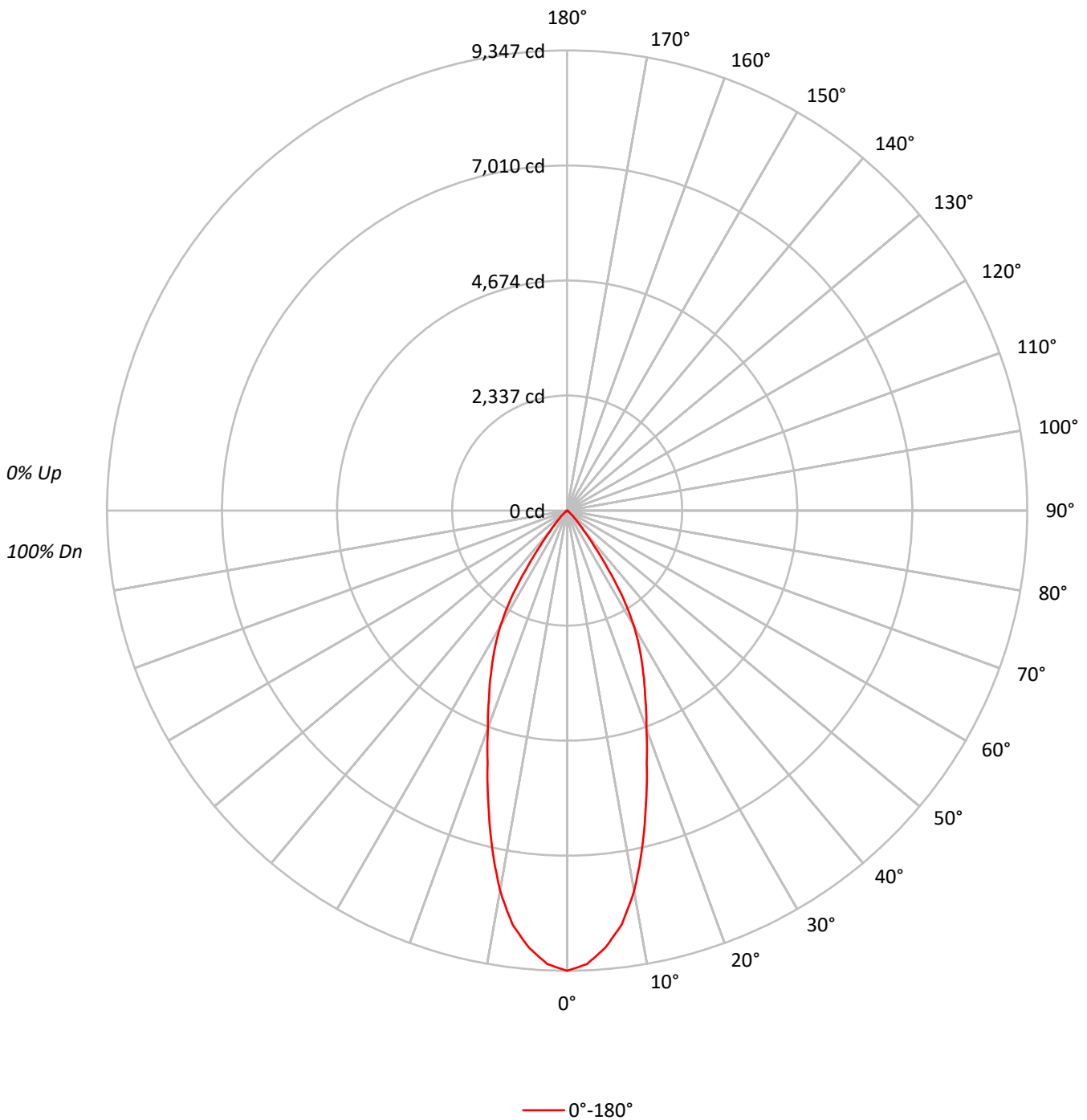
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	90	82	77	73	89	81	76	73	80	75	72		79	75	72		77	74	71	70
7	86	78	72	69	85	77	72	68	76	71	68		75	71	68		74	70	67	66
8	83	74	68	65	82	73	68	65	72	68	64		71	67	64		70	67	64	62
9	79	70	65	61	78	70	65	61	69	64	61		68	64	61		67	63	60	59
10	76	67	62	58	75	67	61	58	66	61	58		65	61	58		64	60	58	56

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

	0°
0°	288224
5°	275838
10°	245568
15°	197275
20°	154511
25°	124753
30°	96669
35°	55062
40°	20767
45°	8957
50°	3603
55°	1344
60°	722
65°	489
70°	298
75°	203
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	817.9	15.3
10°-20°	1716.0	32.0
20°-30°	1679.2	31.3
30°-40°	929.0	17.3
40°-50°	179.8	3.4
50°-60°	27.5	0.5
60°-70°	6.8	0.1
70°-80°	1.8	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°	4213.0	78.6
0°-40°	5142.1	96.0
0°-60°	5349.4	99.8
0°-90°	5358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5358.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9347	
5°	8911	818
15°	6180	1716
25°	3667	1679
35°	1463	929
45°	205	180
55°	25	28
65°	7	7
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9346.9
2.5°	9218.4
5°	8911.2
7.5°	8480.4
10°	7842.6
12.5°	7036.1
15°	6179.5
17.5°	5376.4
20°	4708.5
22.5°	4155.9
25°	3666.6
27.5°	3205.8
30°	2714.9
32.5°	2138.9
35°	1462.7
37.5°	879.9
40°	515.9
42.5°	322.3
45°	205.4
47.5°	128.6
50°	75.1
52.5°	41.7
55°	25.0
57.5°	15.0
60°	11.7
62.5°	8.3
65°	6.7
67.5°	5.0
70°	3.3
72.5°	1.7
75°	1.7
77.5°	1.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)