

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: P250589

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80935 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4550.0 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

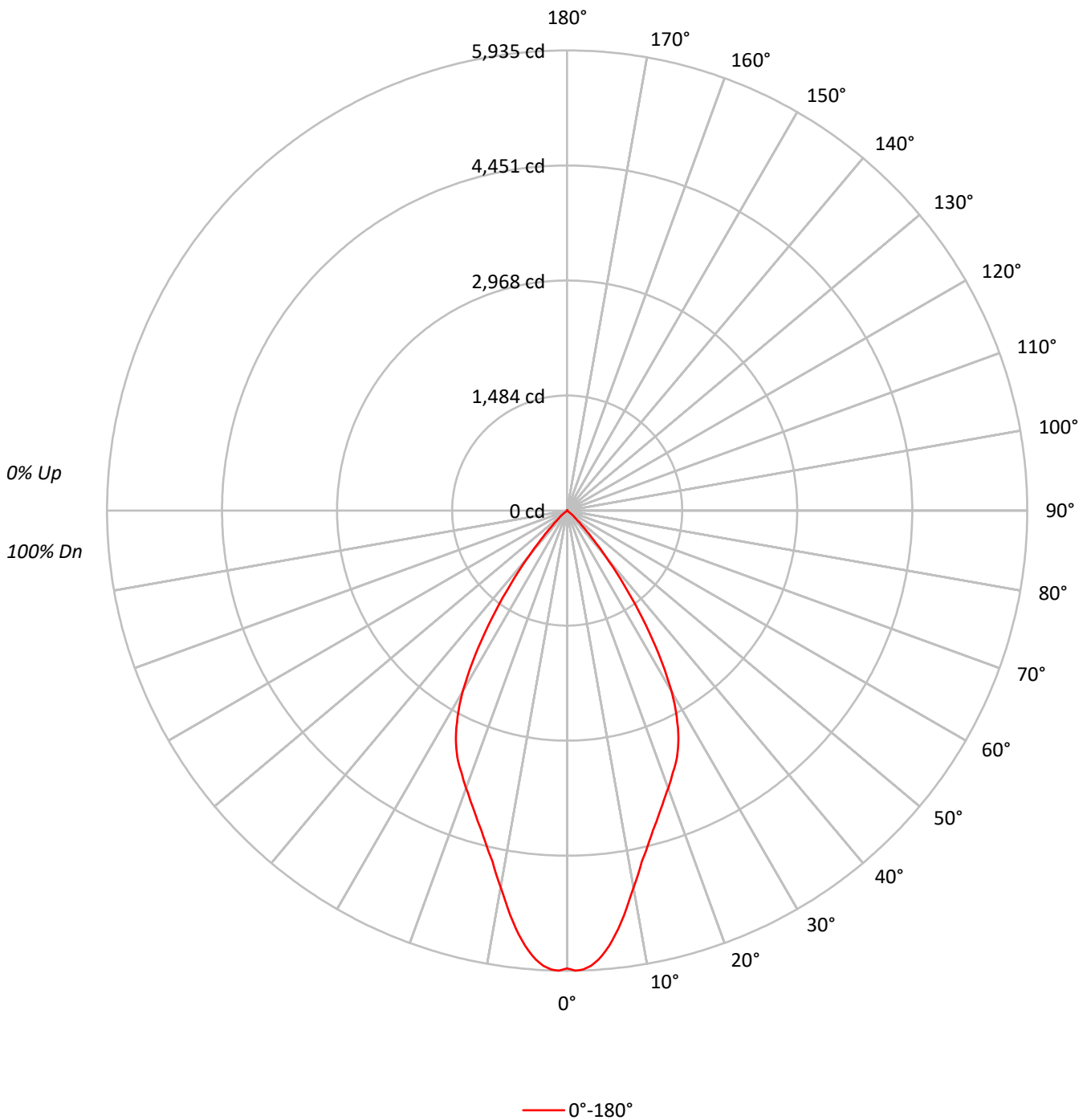
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

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

	0°
0°	182051
5°	176485
10°	154565
15°	136460
20°	125043
25°	115138
30°	95828
35°	63653
40°	30979
45°	11221
50°	3377
55°	237
60°	0
65°	161
70°	0
75°	0
80°	391
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.6	11.4
10°-20°	1204.3	26.5
20°-30°	1527.8	33.6
30°-40°	1046.6	23.0
40°-50°	238.5	5.2
50°-60°	11.9	0.3
60°-70°	0.5	0.0
70°-80°	0.9	0.0
80°-90°	0.9	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°	3250.6	71.4
0°-40°	4297.3	94.4
0°-60°	4547.7	99.9
0°-90°	4550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4550.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5904	
5°	5702	519
15°	4274	1204
25°	3384	1528
35°	1691	1047
45°	257	239
55°	4	12
65°	2	1
75°	0	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5903.8
1°	5934.6
2°	5923.5
3°	5879.6
4°	5804.8
5°	5701.5
6°	5576.1
7°	5431.0
8°	5270.5
9°	5099.0
10°	4936.3
11°	4786.8
12°	4626.3
13°	4509.7
14°	4386.6
15°	4274.5
16°	4173.3
17°	4074.3
18°	3982.0
19°	3891.8
20°	3810.5
21°	3726.9
22°	3641.2
23°	3566.5
24°	3482.9
25°	3384.0
26°	3274.0
27°	3146.5
28°	3010.2
29°	2858.4
30°	2691.3
31°	2502.2
32°	2306.5
33°	2102.1
34°	1893.1
35°	1690.9
37.5°	1193.9
40°	769.6
42.5°	452.9
45°	257.3
47.5°	138.5
50°	70.4
52.5°	13.2
55°	4.4
57.5°	2.2



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	2.2
67.5°	0.0
70°	0.0
72.5°	2.2
75°	0.0
77.5°	0.0
80°	2.2
82.5°	0.0
85°	0.0
87.5°	2.2
90°	0.0

(END OF REPORT)