

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: P249882

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80835 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8138.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

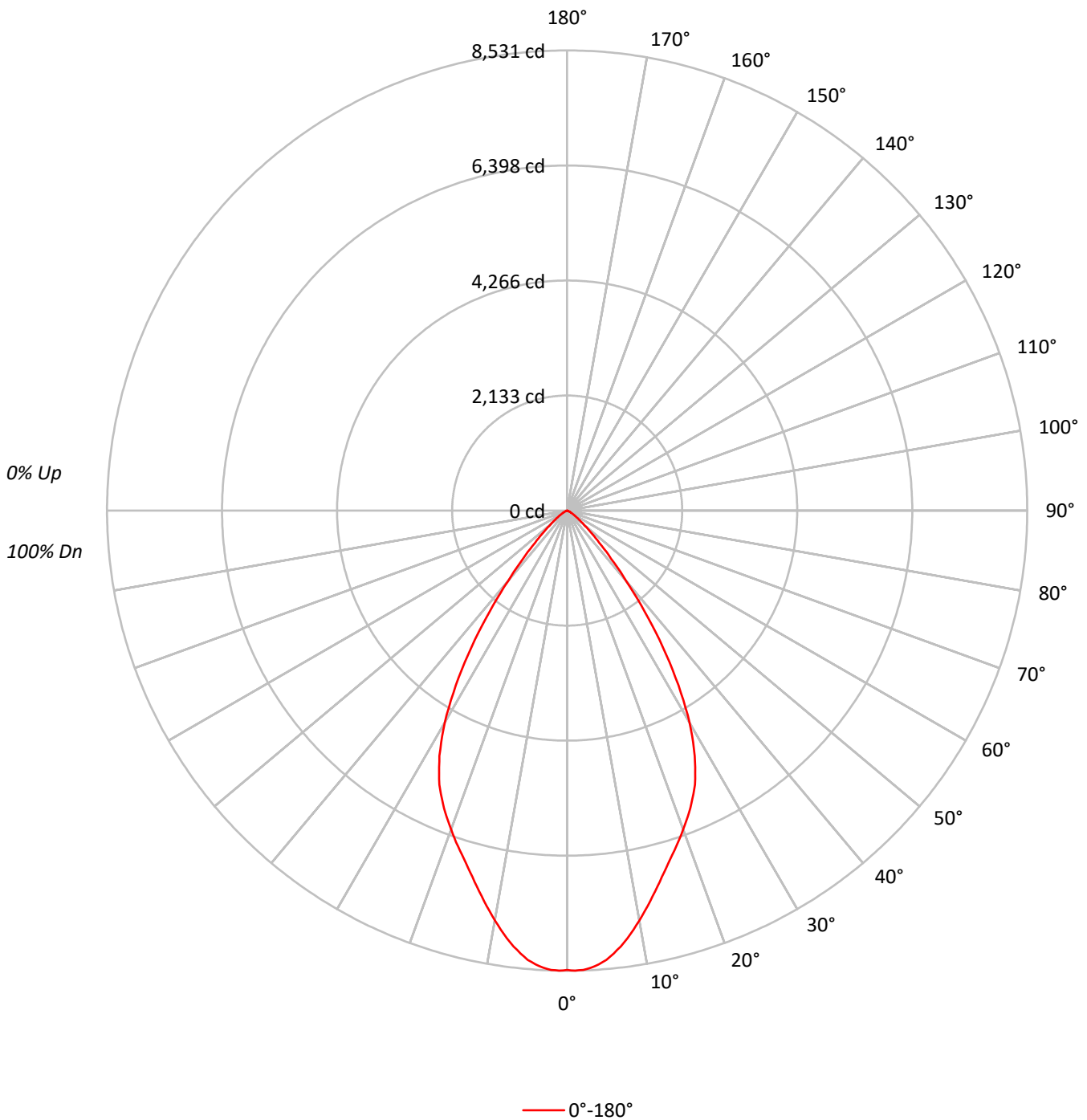
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

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

	0°
0°	262661
5°	258792
10°	241519
15°	221691
20°	206474
25°	190763
30°	161768
35°	116373
40°	68557
45°	36636
50°	19117
55°	10779
60°	5945
65°	3517
70°	1605
75°	905
80°	444
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	776.5	9.5
10°-20°	1953.8	24.0
20°-30°	2536.4	31.2
30°-40°	1914.4	23.5
40°-50°	700.5	8.6
50°-60°	195.8	2.4
60°-70°	51.5	0.6
70°-80°	8.6	0.1
80°-90°	0.3	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°	5266.8	64.7
0°-40°	7181.2	88.2
0°-60°	8077.5	99.3
0°-90°	8138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8518	
5°	8360	777
15°	6944	1954
25°	5607	2536
35°	3091	1914
45°	840	701
55°	200	196
65°	48	51
75°	8	9
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8517.9
1°	8530.6
2°	8520.4
3°	8487.4
4°	8431.6
5°	8360.5
6°	8256.5
7°	8142.2
8°	8010.3
9°	7865.6
10°	7713.3
11°	7561.0
12°	7403.6
13°	7243.7
14°	7091.5
15°	6944.3
16°	6804.7
17°	6670.1
18°	6548.3
19°	6421.4
20°	6292.0
22.5°	5969.6
25°	5606.7
27.5°	5127.0
30°	4543.2
32.5°	3840.2
35°	3091.4
37.5°	2360.4
40°	1703.1
42.5°	1205.6
45°	840.1
47.5°	591.4
50°	398.5
52.5°	291.9
55°	200.5
57.5°	144.7
60°	96.4
62.5°	71.1
65°	48.2
67.5°	33.0
70°	17.8
72.5°	12.7
75°	7.6
77.5°	2.5
80°	2.5



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)