

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: P243798

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10827 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1127.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

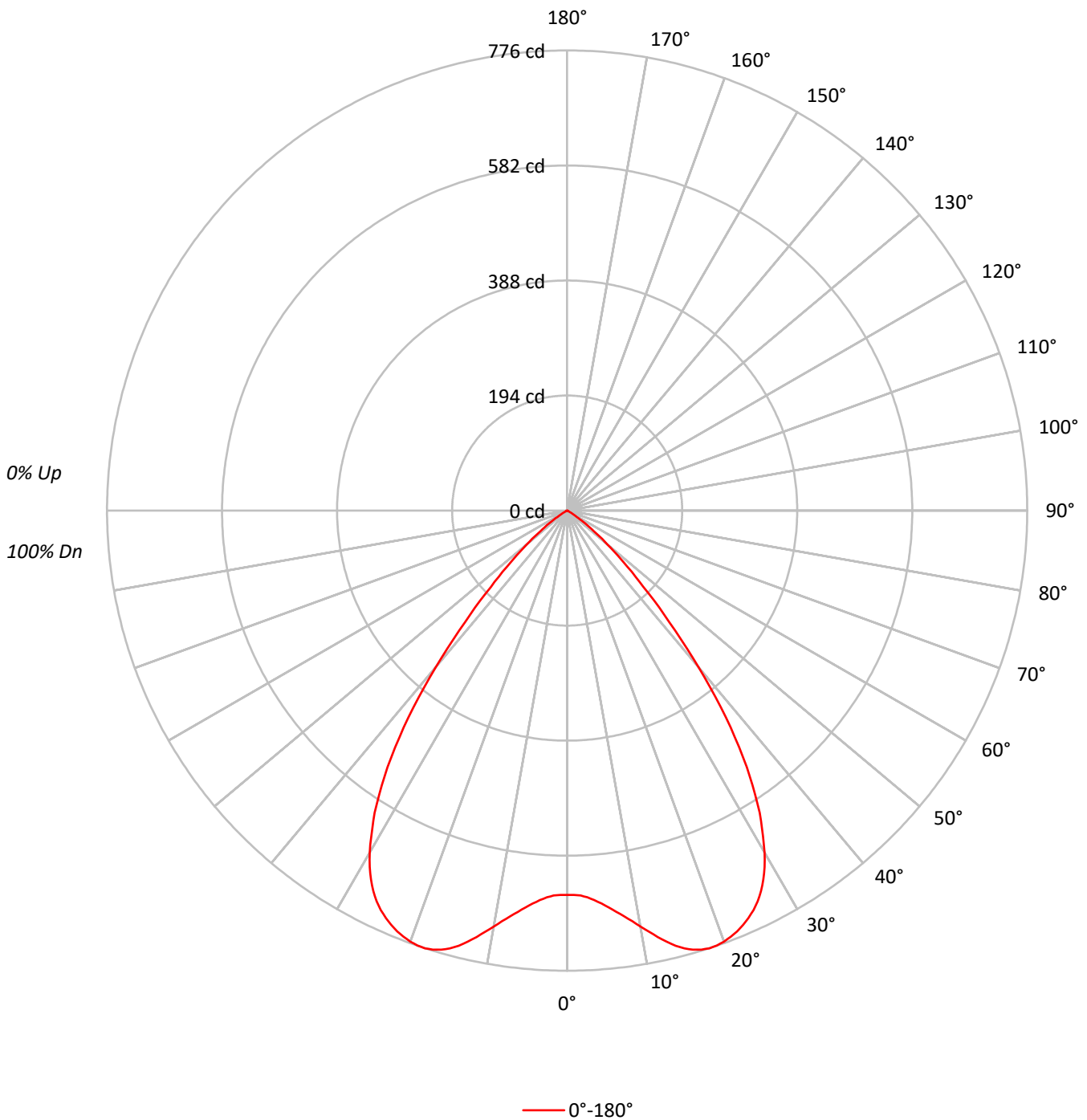
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19994
5°	20588
10°	22304
15°	24403
20°	25386
25°	25294
30°	23725
35°	19895
40°	13851
45°	7933
50°	4260
55°	1758
60°	438
65°	109
70°	54
75°	36
80°	53
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	5.8
10°-20°	215.4	19.1
20°-30°	339.0	30.1
30°-40°	322.4	28.6
40°-50°	148.7	13.2
50°-60°	33.8	3.0
60°-70°	2.2	0.2
70°-80°	0.4	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°	619.4	55.0
0°-40°	941.9	83.6
0°-60°	1124.3	99.8
0°-90°	1127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1127.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	648	
5°	665	65
15°	764	215
25°	743	339
35°	528	322
45°	182	149
55°	33	34
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	648.4
1°	648.1
2°	649.4
3°	653.1
4°	658.6
5°	665.1
6°	673.1
7°	681.7
8°	690.7
9°	701.2
10°	712.3
11°	723.4
12°	735.1
13°	746.2
14°	756.4
15°	764.4
16°	770.2
17°	774.2
18°	776.1
19°	775.8
20°	773.6
21°	769.9
22°	765.3
23°	759.1
24°	752.0
25°	743.4
26°	733.2
27°	720.3
28°	704.9
29°	687.0
30°	666.3
32.5°	604.3
35°	528.5
37.5°	440.3
40°	344.1
42.5°	254.4
45°	181.9
47.5°	128.9
50°	88.8
52.5°	56.7
55°	32.7
57.5°	16.3
60°	7.1
62.5°	2.8
65°	1.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.9
70°	0.6
72.5°	0.6
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)