

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: P244326

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10850 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1059.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

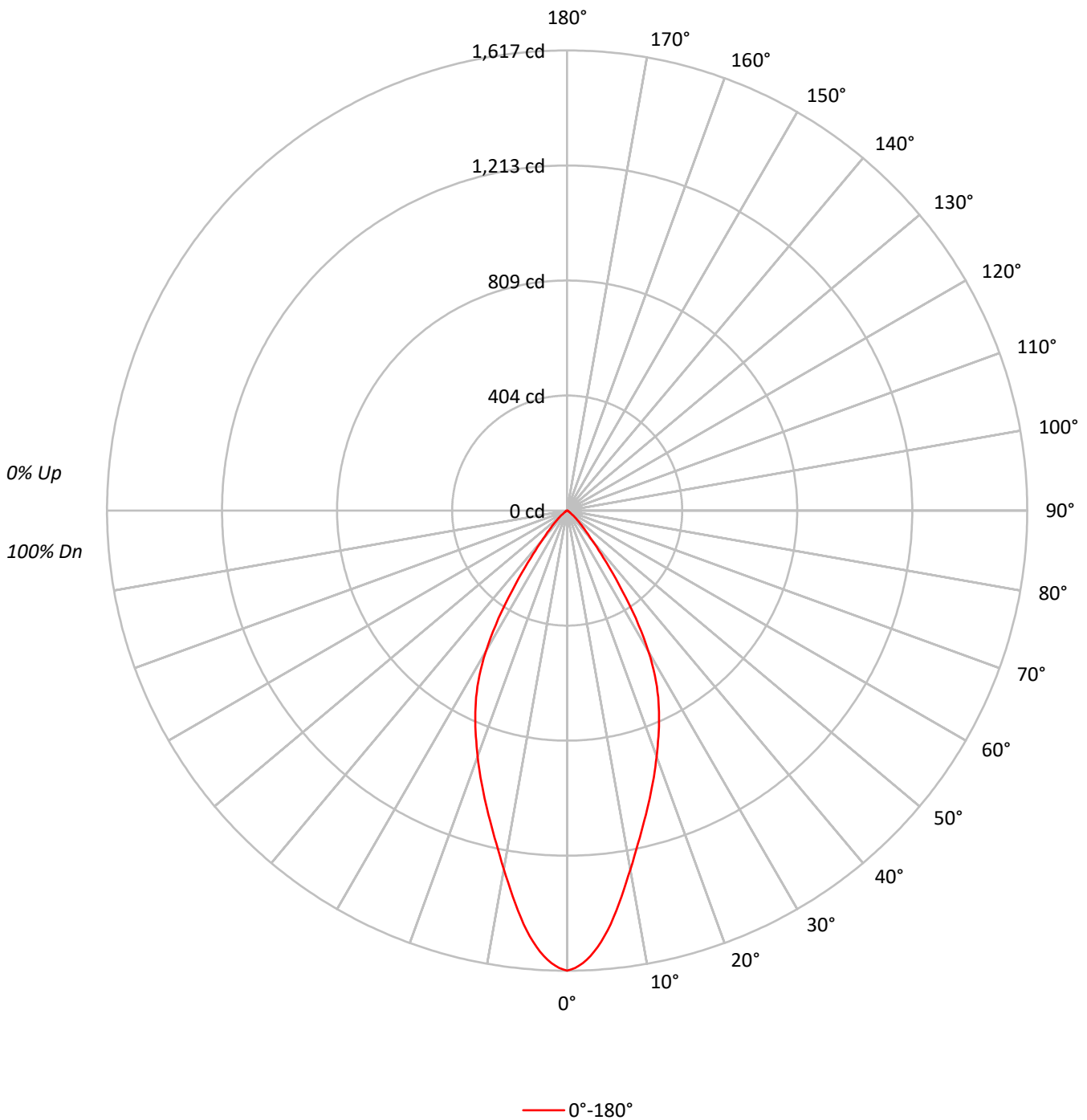
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49850
5°	46496
10°	40079
15°	34686
20°	30174
25°	25930
30°	20374
35°	11888
40°	5487
45°	2839
50°	1425
55°	694
60°	352
65°	212
70°	99
75°	83
80°	71
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	12.8
10°-20°	303.8	28.7
20°-30°	345.4	32.6
30°-40°	202.8	19.2
40°-50°	54.5	5.1
50°-60°	12.9	1.2
60°-70°	2.9	0.3
70°-80°	0.7	0.1
80°-90°	0.1	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°	785.1	74.1
0°-40°	988.0	93.3
0°-60°	1055.4	99.7
0°-90°	1059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1617	
5°	1502	136
15°	1086	304
25°	762	345
35°	316	203
45°	65	54
55°	13	13
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1616.6
1°	1607.6
2°	1591.2
3°	1567.9
4°	1537.9
5°	1502.1
6°	1461.7
7°	1415.9
8°	1370.2
9°	1324.0
10°	1280.0
11°	1237.1
12°	1196.7
13°	1159.1
14°	1121.6
15°	1086.5
16°	1052.2
17°	1018.2
18°	985.3
19°	952.1
20°	919.5
21°	887.0
22°	855.9
23°	825.1
24°	793.6
25°	762.1
26°	729.6
27°	694.2
28°	657.0
29°	616.2
30°	572.2
32.5°	448.8
35°	315.8
37.5°	208.2
40°	136.3
42.5°	94.1
45°	65.1
47.5°	44.7
50°	29.7
52.5°	19.3
55°	12.9
57.5°	8.6
60°	5.7
62.5°	3.9
65°	2.9



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.8
70°	1.1
72.5°	0.7
75°	0.7
77.5°	0.4
80°	0.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)