

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: P243818

Luminaire Tested: **LSR8B20D010 EC8B20840 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243818
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: LSR8B20D010 EC8B20840 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2296.0 lumens
Efficiency: N/A
Efficacy: 107.8 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

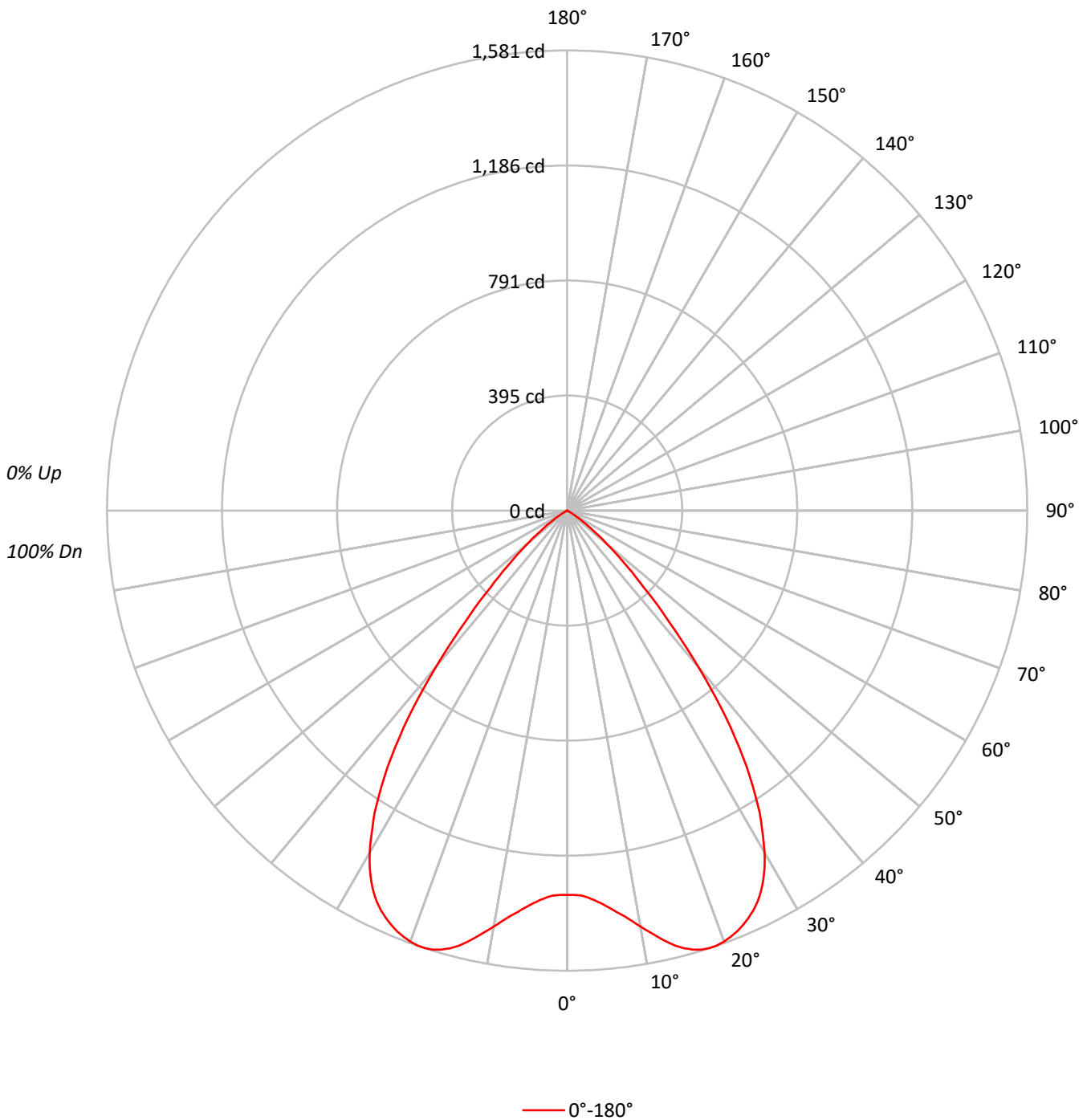
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	40735
5°	41943
10°	45437
15°	49712
20°	51720
25°	51530
30°	48336
35°	40531
40°	28218
45°	16162
50°	8678
55°	3581
60°	888
65°	226
70°	117
75°	71
80°	107
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	5.8
10°-20°	438.9	19.1
20°-30°	690.6	30.1
30°-40°	656.9	28.6
40°-50°	302.8	13.2
50°-60°	68.8	3.0
60°-70°	4.5	0.2
70°-80°	0.9	0.0
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°	1261.9	55.0
0°-40°	1918.8	83.6
0°-60°	2290.5	99.8
0°-90°	2296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1321	
5°	1355	132
15°	1557	439
25°	1514	691
35°	1077	657
45°	371	303
55°	67	69
65°	3	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1321.0
1°	1320.4
2°	1322.9
3°	1330.5
4°	1341.8
5°	1355.0
6°	1371.3
7°	1388.9
8°	1407.1
9°	1428.5
10°	1451.1
11°	1473.7
12°	1497.6
13°	1520.2
14°	1540.9
15°	1557.2
16°	1569.2
17°	1577.3
18°	1581.1
19°	1580.5
20°	1576.1
21°	1568.5
22°	1559.1
23°	1546.6
24°	1532.1
25°	1514.5
26°	1493.8
27°	1467.4
28°	1436.0
29°	1399.6
30°	1357.5
32.5°	1231.2
35°	1076.7
37.5°	897.0
40°	701.0
42.5°	518.2
45°	370.6
47.5°	262.6
50°	180.9
52.5°	115.6
55°	66.6
57.5°	33.3
60°	14.4
62.5°	5.7
65°	3.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.9
70°	1.3
72.5°	1.3
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)