

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: P244352

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244352
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: LSR8B20D010 EC8B20940 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1791.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

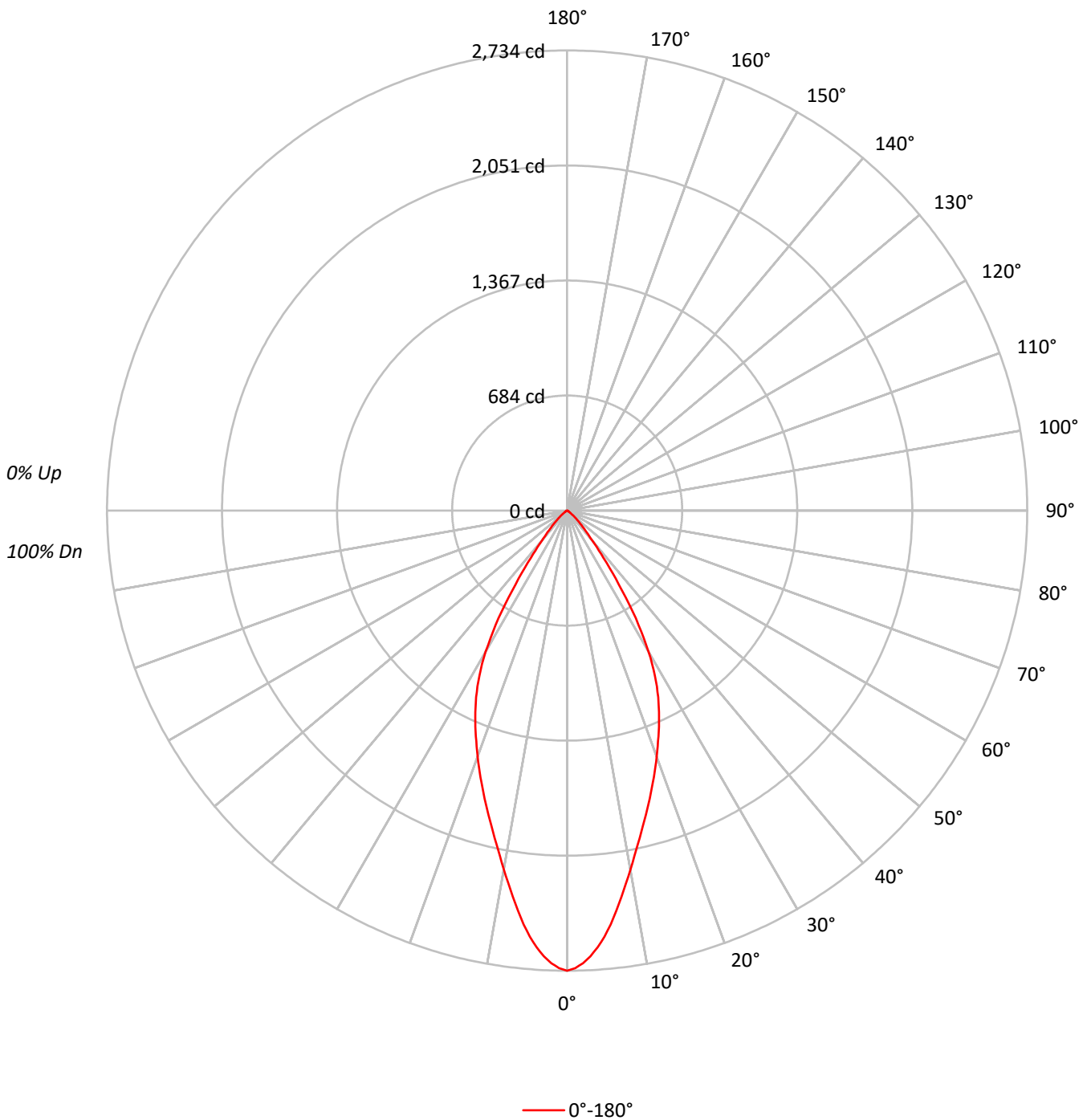
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	84306
5°	78636
10°	67784
15°	58664
20°	51031
25°	43857
30°	34460
35°	20106
40°	9279
45°	4801
50°	2408
55°	1172
60°	598
65°	350
70°	162
75°	143
80°	107
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	12.8
10°-20°	513.8	28.7
20°-30°	584.2	32.6
30°-40°	343.1	19.2
40°-50°	92.1	5.1
50°-60°	21.9	1.2
60°-70°	5.0	0.3
70°-80°	1.1	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°	1327.8	74.1
0°-40°	1670.9	93.3
0°-60°	1784.8	99.7
0°-90°	1791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1791.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2734	
5°	2540	230
15°	1838	514
25°	1289	584
35°	534	343
45°	110	92
55°	22	22
65°	5	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2734.0
1°	2718.9
2°	2691.0
3°	2651.7
4°	2600.9
5°	2540.4
6°	2472.1
7°	2394.7
8°	2317.2
9°	2239.2
10°	2164.8
11°	2092.2
12°	2023.9
13°	1960.4
14°	1896.8
15°	1837.6
16°	1779.5
17°	1722.0
18°	1666.4
19°	1610.1
20°	1555.1
21°	1500.1
22°	1447.4
23°	1395.4
24°	1342.2
25°	1289.0
26°	1233.9
27°	1174.0
28°	1111.1
29°	1042.2
30°	967.8
32.5°	759.1
35°	534.1
37.5°	352.0
40°	230.5
42.5°	159.1
45°	110.1
47.5°	75.6
50°	50.2
52.5°	32.7
55°	21.8
57.5°	14.5
60°	9.7
62.5°	6.7
65°	4.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.0
70°	1.8
72.5°	1.2
75°	1.2
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)