

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: P243848

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243848  
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 EC8B20940 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2058.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 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

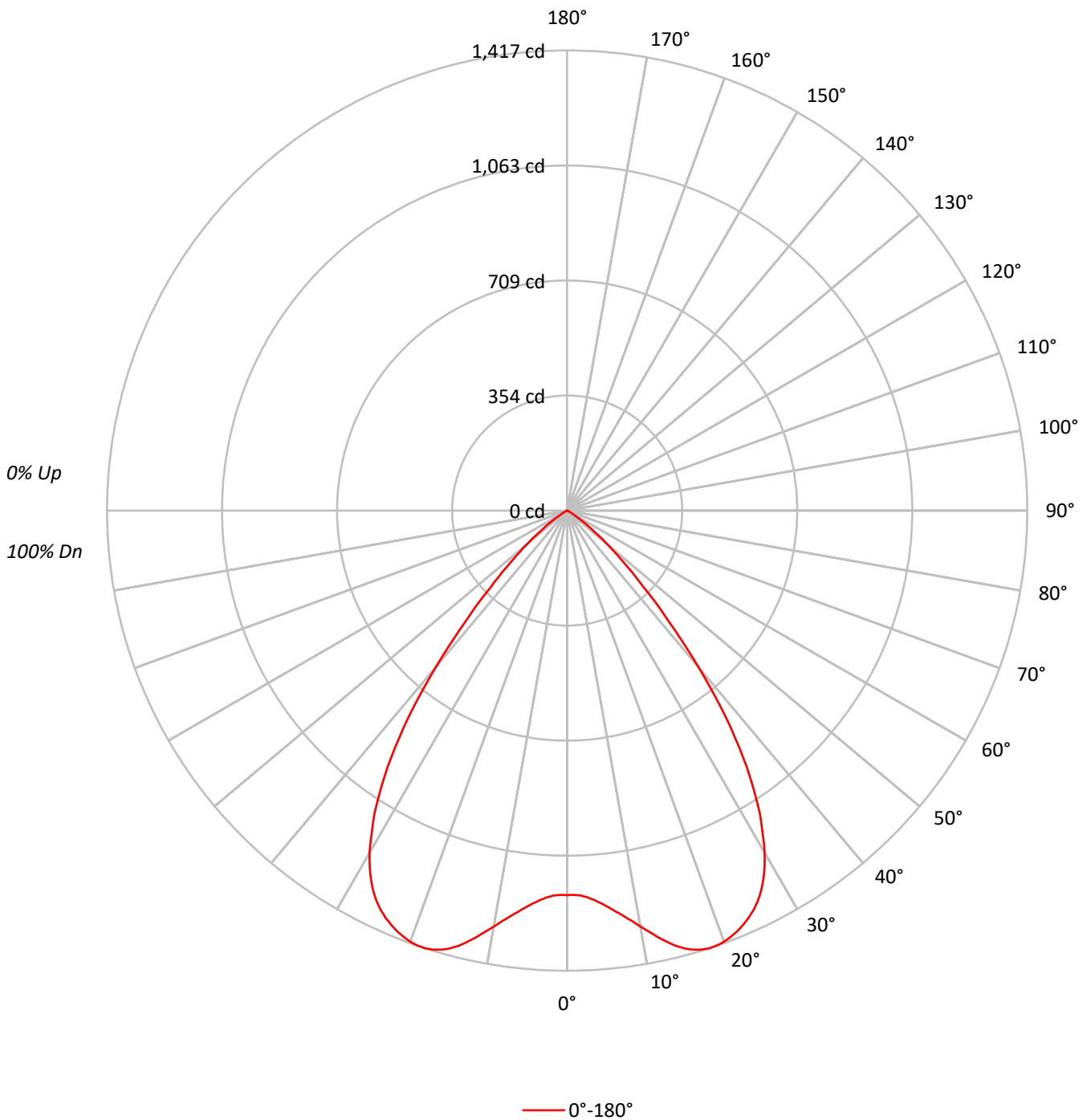
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	36513
5°	37594
10°	40728
15°	44560
20°	46358
25°	46188
30°	43326
35°	36330
40°	25296
45°	14487
50°	7781
55°	3210
60°	802
65°	204
70°	99
75°	71
80°	107
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	5.8
10°-20°	393.4	19.1
20°-30°	619.0	30.1
30°-40°	588.8	28.6
40°-50°	271.5	13.2
50°-60°	61.7	3.0
60°-70°	4.1	0.2
70°-80°	0.8	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°	1131.1	55.0
0°-40°	1719.9	83.6
0°-60°	2053.1	99.8
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1184	
5°	1214	119
15°	1396	393
25°	1358	619
35°	965	589
45°	332	271
55°	60	62
65°	3	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1184.1
1°	1183.5
2°	1185.8
3°	1192.6
4°	1202.7
5°	1214.5
6°	1229.2
7°	1244.9
8°	1261.2
9°	1280.4
10°	1300.7
11°	1320.9
12°	1342.3
13°	1362.6
14°	1381.2
15°	1395.8
16°	1406.5
17°	1413.8
18°	1417.2
19°	1416.7
20°	1412.7
21°	1406.0
22°	1397.5
23°	1386.2
24°	1373.3
25°	1357.5
26°	1338.9
27°	1315.3
28°	1287.1
29°	1254.5
30°	1216.8
32.5°	1103.6
35°	965.1
37.5°	804.0
40°	628.4
42.5°	464.5
45°	332.2
47.5°	235.4
50°	162.2
52.5°	103.6
55°	59.7
57.5°	29.8
60°	13.0
62.5°	5.1
65°	2.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	1.7
70°	1.1
72.5°	1.1
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)