

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: P244460

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-13)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20835 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2376.0 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

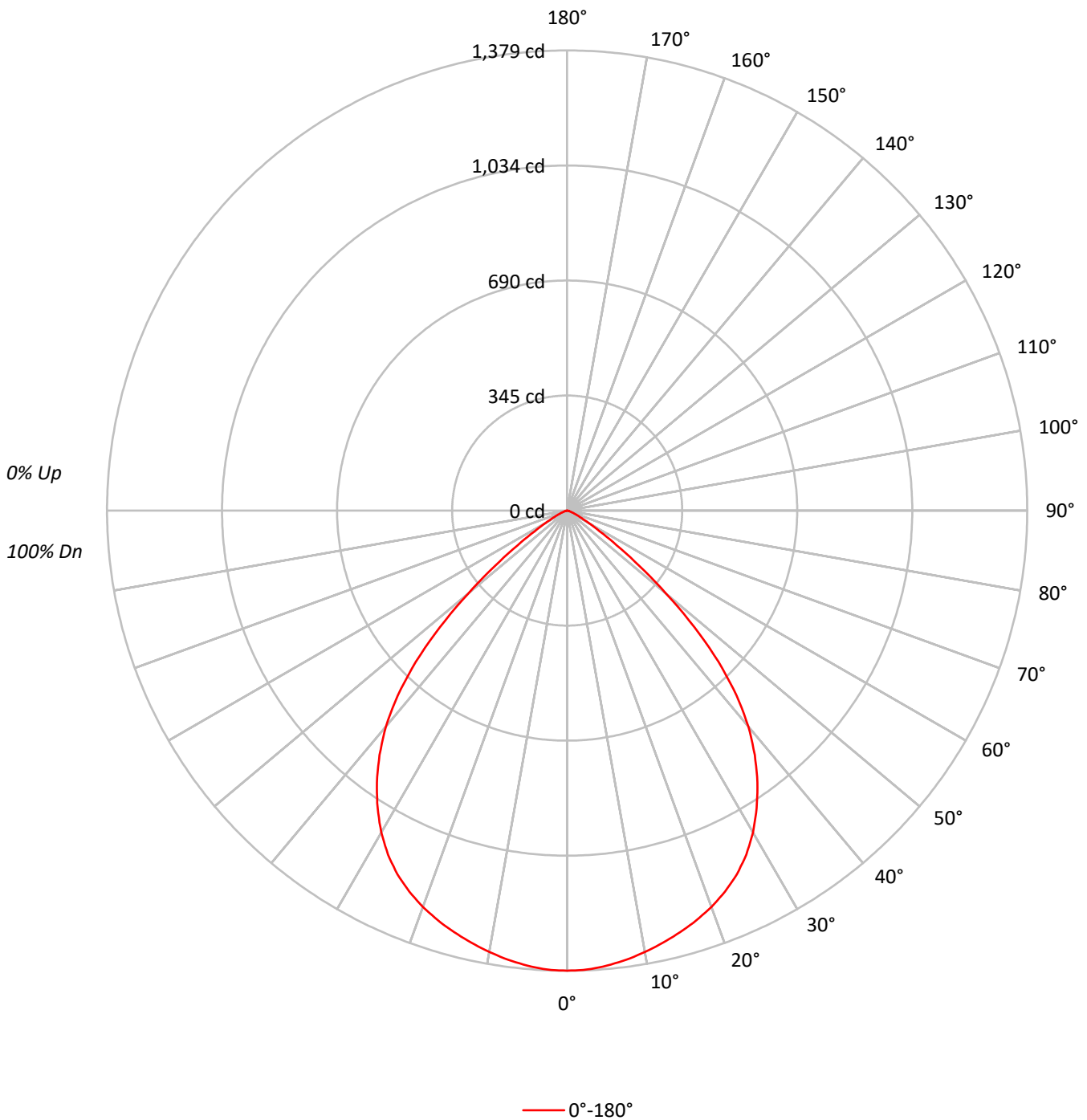
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244460

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBS0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244460

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBS0H

**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	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69		76	72	68		74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	61	56	78	68	61	56	66	60	56		65	59	55		63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	42520
5°	42376
10°	42055
15°	41760
20°	41479
25°	40931
30°	39666
35°	37426
40°	34015
45°	27988
50°	18657
55°	9720
60°	4582
65°	2401
70°	1199
75°	834
80°	622
85°	495



TEST NUMBER: P244460

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBS0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	5.5
10°-20°	369.2	15.5
20°-30°	552.3	23.2
30°-40°	617.8	26.0
40°-50°	484.7	20.4
50°-60°	176.8	7.4
60°-70°	36.0	1.5
70°-80°	7.7	0.3
80°-90°	1.6	0.1
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°	1051.4	44.2
0°-40°	1669.1	70.2
0°-60°	2330.6	98.1
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1379	
5°	1369	130
15°	1308	369
25°	1203	552
35°	994	618
45°	642	485
55°	181	177
65°	33	36
75°	7	8
85°	1	2
90°	0	



TEST NUMBER: P244460

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBS0H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1378.9
2.5°	1376.8
5°	1369.0
7.5°	1357.8
10°	1343.1
12.5°	1326.3
15°	1308.1
17.5°	1287.8
20°	1264.0
22.5°	1235.9
25°	1203.0
27.5°	1162.4
30°	1114.0
32.5°	1057.3
35°	994.2
37.5°	923.4
40°	845.0
42.5°	751.8
45°	641.8
47.5°	517.8
50°	388.9
52.5°	272.5
55°	180.8
57.5°	115.6
60°	74.3
62.5°	49.0
65°	32.9
67.5°	21.0
70°	13.3
72.5°	9.1
75°	7.0
77.5°	4.9
80°	3.5
82.5°	2.1
85°	1.4
87.5°	0.7
90°	0.0

(END OF REPORT)