

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: P244904

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20850 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2362.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

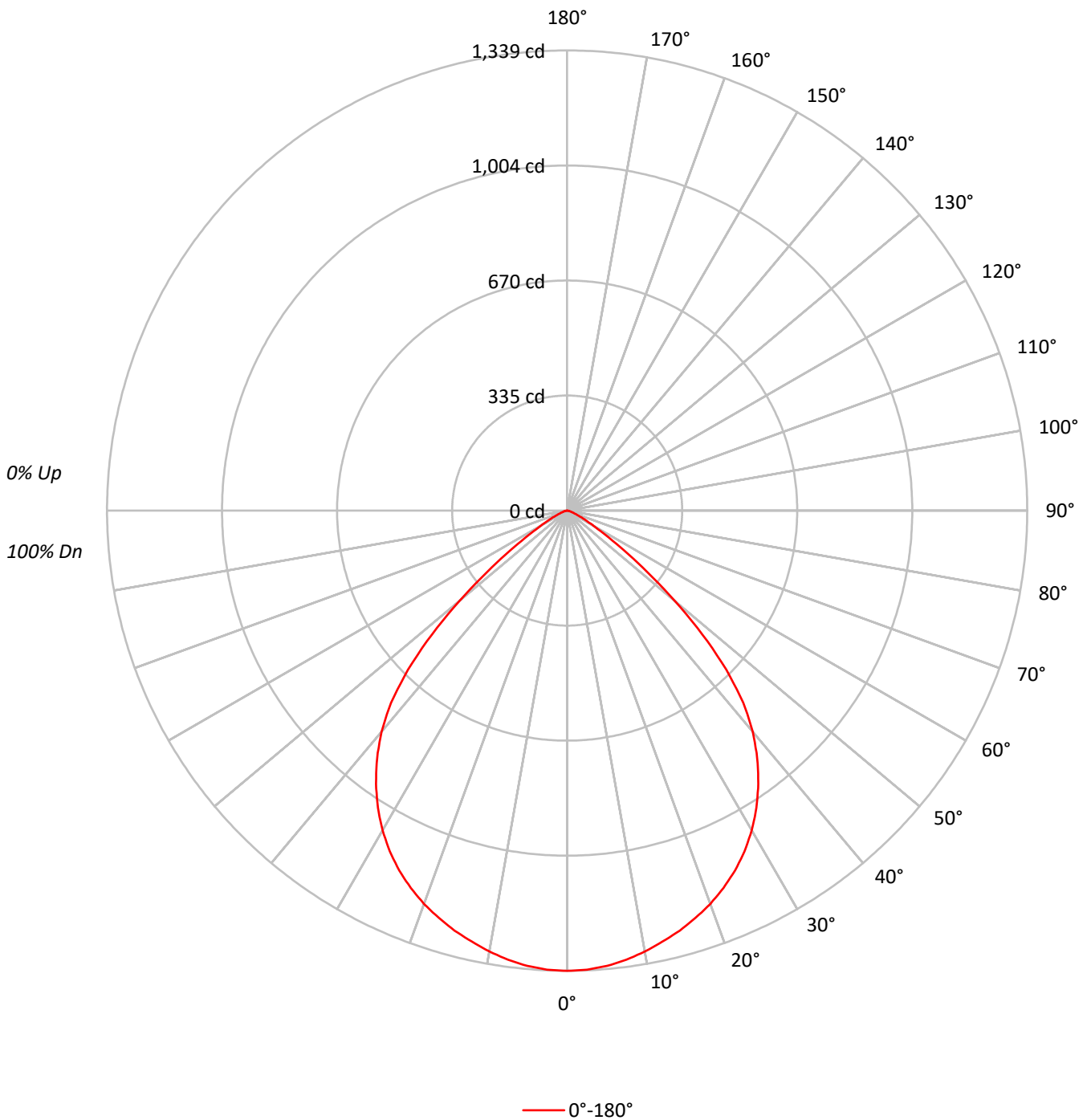
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	74	67	62	83	73	67	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	63	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

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

	0°
0°	41296
5°	41169
10°	40800
15°	40394
20°	39959
25°	39328
30°	38249
35°	36507
40°	33833
45°	28564
50°	19597
55°	10811
60°	5433
65°	3057
70°	1668
75°	1180
80°	764
85°	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	5.3
10°-20°	356.8	15.1
20°-30°	531.3	22.5
30°-40°	603.5	25.6
40°-50°	493.3	20.9
50°-60°	193.3	8.2
60°-70°	45.1	1.9
70°-80°	10.8	0.5
80°-90°	1.7	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°	1014.2	42.9
0°-40°	1617.7	68.5
0°-60°	2304.4	97.6
0°-90°	2362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1339	
5°	1330	126
15°	1265	357
25°	1156	531
35°	970	604
45°	655	493
55°	201	193
65°	42	45
75°	10	11
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1339.2
2.5°	1337.1
5°	1330.0
7.5°	1317.9
10°	1303.0
12.5°	1284.5
15°	1265.3
17.5°	1242.6
20°	1217.7
22.5°	1188.6
25°	1155.9
27.5°	1117.6
30°	1074.2
32.5°	1025.2
35°	969.8
37.5°	908.7
40°	840.5
42.5°	758.1
45°	655.0
47.5°	534.3
50°	408.5
52.5°	293.4
55°	201.1
57.5°	131.4
60°	88.1
62.5°	60.4
65°	41.9
67.5°	27.7
70°	18.5
72.5°	12.8
75°	9.9
77.5°	7.1
80°	4.3
82.5°	2.1
85°	1.4
87.5°	0.7
90°	0.0

(END OF REPORT)