

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: P244832

Luminaire Tested: **LD8B20D010 ER8B20850 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201704)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B20D010 ER8B20850 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2101.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

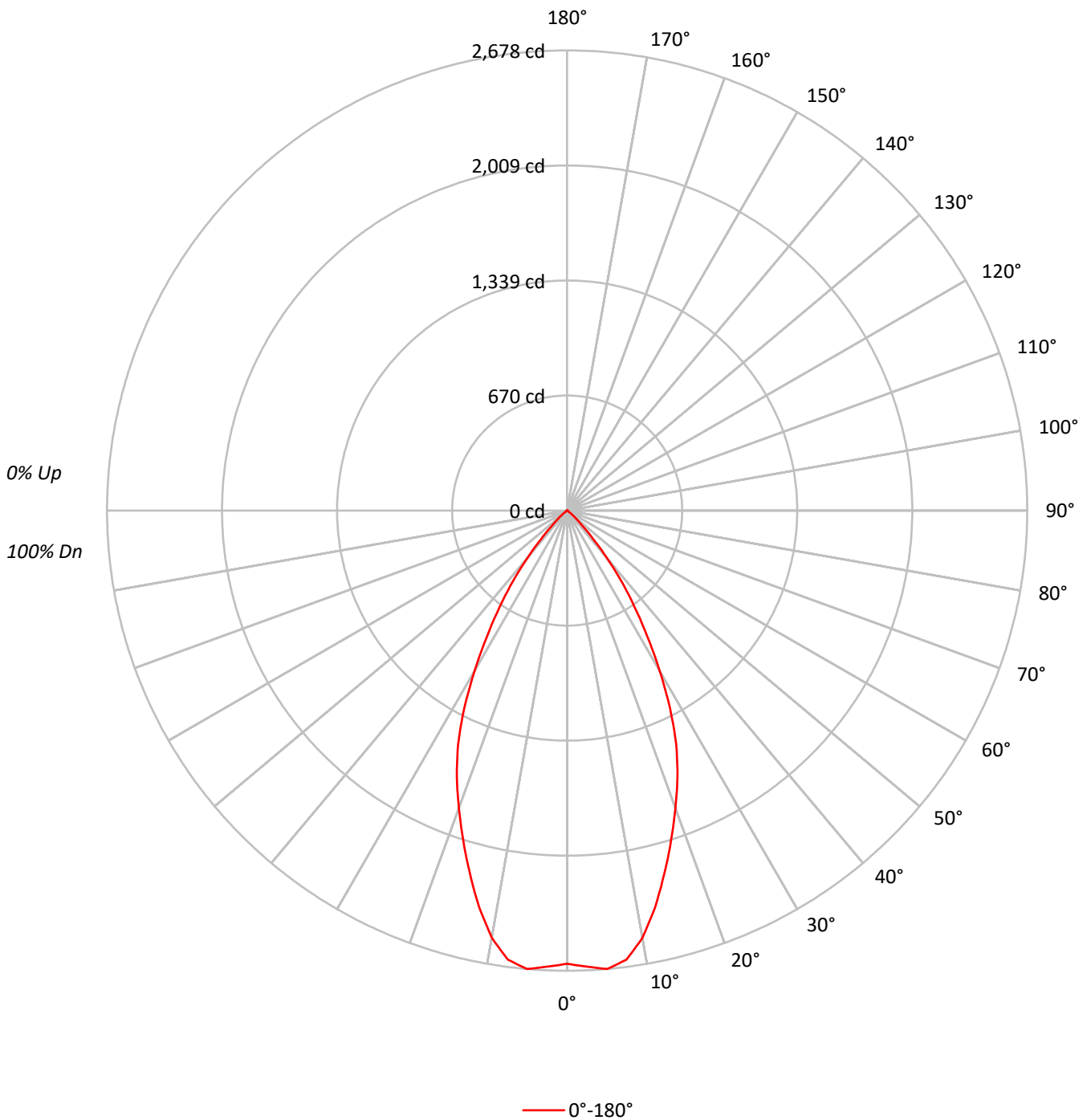
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244832

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBM0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P244832

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBM0WMH

**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	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	73		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65		72	68	64		71	67	64	63
8	80	71	65	61	79	71	65	61	69	64	61		68	64	61		67	63	60	59
9	77	67	61	58	76	67	61	57	66	61	57		65	60	57		64	60	57	56
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61	57	54	53

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

	0°
0°	81331
5°	82892
10°	79032
15°	69783
20°	60475
25°	51097
30°	38402
35°	25711
40°	14399
45°	5783
50°	2005
55°	554
60°	315
65°	277
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P244832

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBM0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.5	11.9
10°-20°	609.7	29.0
20°-30°	676.6	32.2
30°-40°	428.6	20.4
40°-50°	118.9	5.7
50°-60°	13.6	0.6
60°-70°	2.7	0.1
70°-80°	0.3	0.0
80°-90°	0.0	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°	1536.8	73.1
0°-40°	1965.5	93.6
0°-60°	2098.0	99.9
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2638	
5°	2678	251
15°	2186	610
25°	1502	677
35°	683	429
45°	133	119
55°	10	14
65°	4	3
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P244832

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBM0WMH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2637.5
2.5°	2657.0
5°	2677.9
7.5°	2636.1
10°	2524.0
12.5°	2364.1
15°	2185.9
17.5°	2011.0
20°	1842.9
22.5°	1677.8
25°	1501.8
27.5°	1296.0
30°	1078.5
32.5°	867.7
35°	683.0
37.5°	516.1
40°	357.7
42.5°	222.4
45°	132.6
47.5°	76.3
50°	41.8
52.5°	20.4
55°	10.3
57.5°	7.8
60°	5.1
62.5°	2.7
65°	3.8
67.5°	1.9
70°	0.0
72.5°	0.5
75°	0.0
77.5°	0.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P244832

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBM0WMH

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)