

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: P245619

Luminaire Tested: **LSR8B30D010 EC8B30840 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30840 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 2486.0 lumens  
Efficiency: 113.9%  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

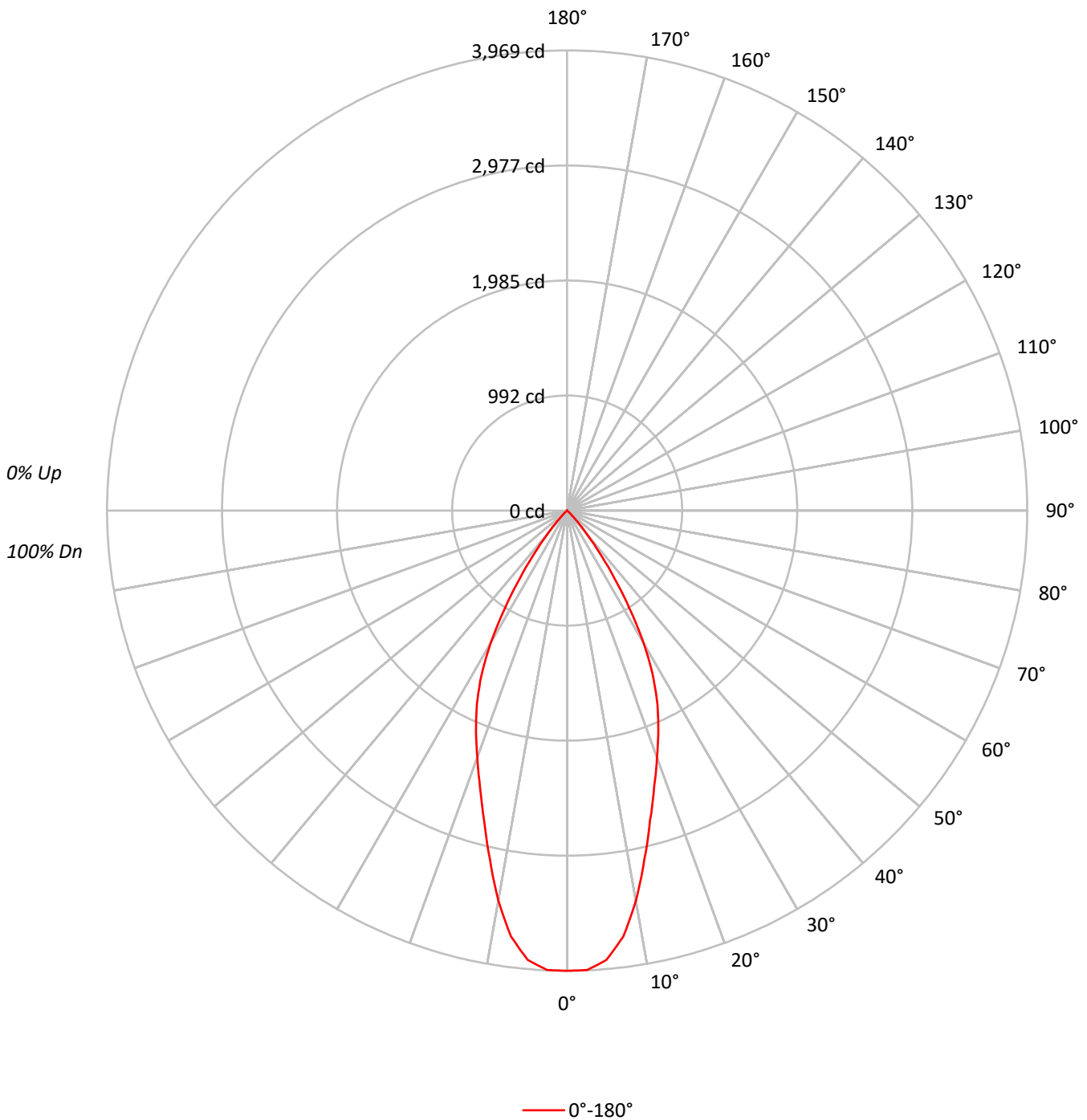
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	136	136	136	136	132	132	132	132	127	127	127	121	121	121	116	116	116	114	114	114
1	130	127	124	122	127	124	122	120	120	118	116	116	114	113	112	111	109	107	107	107
2	124	119	115	111	121	117	113	110	113	110	107	110	107	105	107	105	103	101	101	101
3	118	112	106	102	116	110	105	101	107	103	100	104	101	98	102	99	97	95	95	95
4	113	105	99	95	111	104	98	94	101	97	93	99	95	92	97	94	91	89	89	89
5	108	99	93	88	106	98	92	88	96	91	87	94	90	86	92	89	86	84	84	84
6	103	94	87	83	101	93	87	82	91	86	82	89	85	81	88	84	81	79	79	79
7	98	89	82	78	97	88	82	78	86	81	77	85	80	77	84	80	76	75	75	75
8	94	84	78	73	93	83	77	73	82	77	73	81	76	73	80	76	72	71	71	71
9	90	80	74	69	89	79	73	69	78	73	69	77	72	69	76	72	69	67	67	67
10	86	76	70	66	85	75	70	66	75	69	65	74	69	65	73	68	65	64	64	64

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

	0°
0°	122392
5°	120430
10°	107006
15°	88289
20°	74327
25°	62706
30°	46944
35°	26550
40°	10482
45°	2826
50°	542
55°	0
60°	68
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	356.0	14.3	16.3	0°	3969	
10°-20°	776.0	31.2	35.5	5°	3891	356
20°-30°	831.2	33.4	38.1	15°	2766	776
30°-40°	450.4	18.1	20.6	25°	1843	831
40°-50°	70.1	2.8	3.2	35°	705	450
50°-60°	1.8	0.1	0.1	45°	65	70
60°-70°	0.4	0.0	0.0	55°	0	2
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	1963.2	79.0	89.9	165°	0	0
0°-40°	2413.6	97.1	110.6	175°	0	0
0°-60°	2485.6	100.0	113.9	180°	0	0
0°-90°	2486.0	100.0	113.9			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	2486.0	100.0	113.9			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3969.1
2.5°	3965.9
5°	3890.6
7.5°	3705.2
10°	3417.4
12.5°	3080.7
15°	2765.6
17.5°	2498.2
20°	2265.0
22.5°	2055.7
25°	1843.0
27.5°	1601.7
30°	1318.4
32.5°	1005.6
35°	705.3
37.5°	451.7
40°	260.4
42.5°	138.8
45°	64.8
47.5°	35.4
50°	11.3
52.5°	1.1
55°	0.0
57.5°	1.1
60°	1.1
62.5°	0.0
65°	0.0
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
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



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**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)