

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: P250841

Luminaire Tested: **LD8B70D010 ER8B70827 8LBMOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-11)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70827 8LBM0LI  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7327.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.72  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

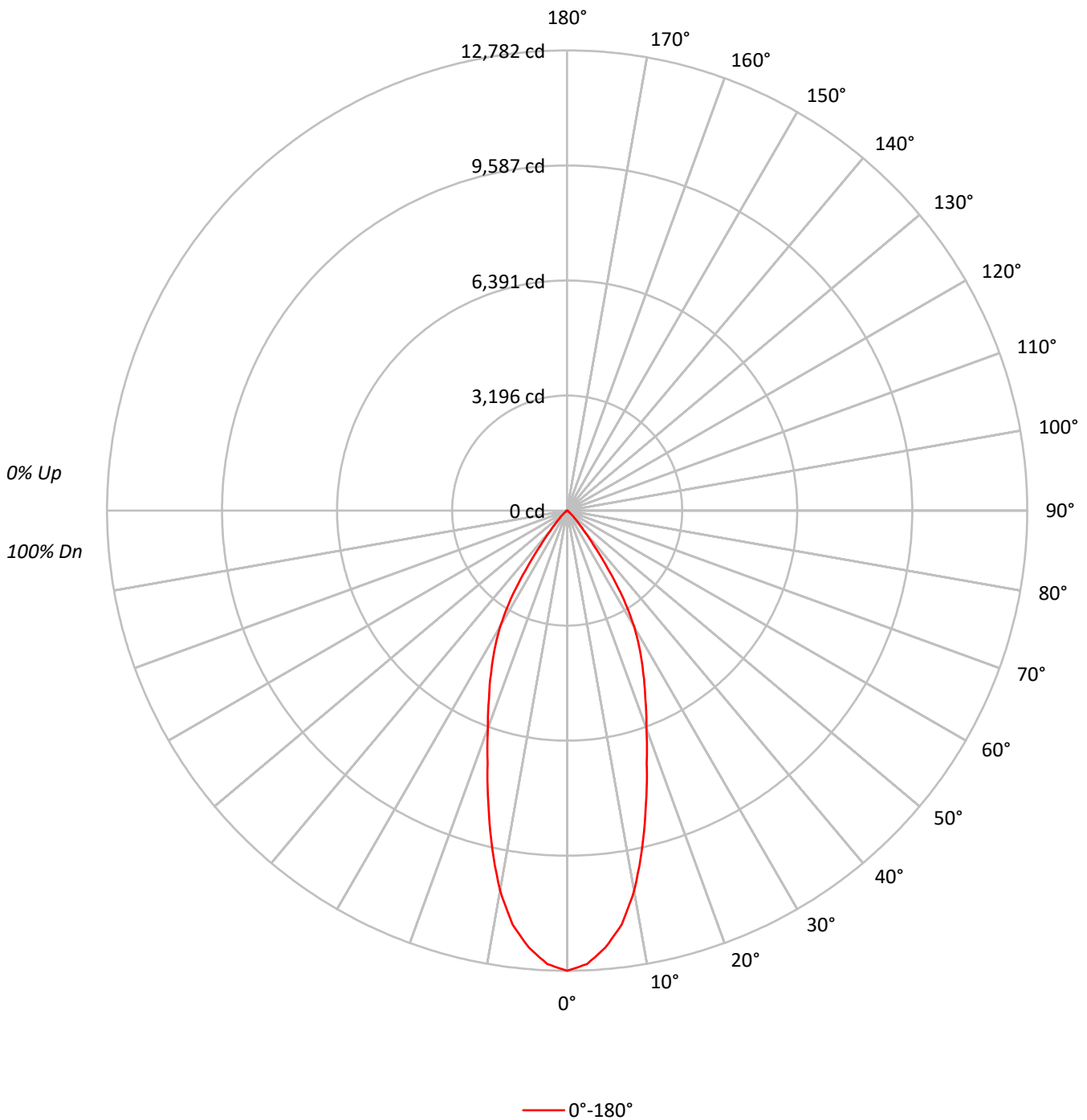
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	90	82	77	73	89	81	76	73	80	75	72		79	75	72		77	74	71	70
7	86	78	72	69	85	77	72	68	76	71	68		75	71	68		74	70	67	66
8	83	74	68	65	82	73	68	65	72	68	64		71	67	64		70	67	64	62
9	79	70	65	61	78	70	65	61	69	64	61		68	64	61		67	63	60	59
10	76	67	62	58	75	67	61	58	66	61	58		65	61	58		64	60	58	56

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

	0°
0°	394144
5°	377204
10°	335809
15°	269771
20°	211295
25°	170600
30°	132193
35°	75296
40°	28399
45°	12245
50°	4927
55°	1839
60°	987
65°	664
70°	415
75°	274
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1118.5	15.3
10°-20°	2346.6	32.0
20°-30°	2296.2	31.3
30°-40°	1270.4	17.3
40°-50°	245.9	3.4
50°-60°	37.7	0.5
60°-70°	9.3	0.1
70°-80°	2.4	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°	5761.3	78.6
0°-40°	7031.7	96.0
0°-60°	7315.3	99.8
0°-90°	7327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12782	
5°	12186	###
15°	8450	2347
25°	5014	2296
35°	2000	1270
45°	281	246
55°	34	38
65°	9	9
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12781.8
2.5°	12606.0
5°	12185.9
7.5°	11596.8
10°	10724.6
12.5°	9621.8
15°	8450.4
17.5°	7352.2
20°	6438.9
22.5°	5683.1
25°	5014.1
27.5°	4383.9
30°	3712.6
32.5°	2924.9
35°	2000.2
37.5°	1203.3
40°	705.5
42.5°	440.7
45°	280.8
47.5°	175.8
50°	102.7
52.5°	57.1
55°	34.2
57.5°	20.5
60°	16.0
62.5°	11.4
65°	9.1
67.5°	6.8
70°	4.6
72.5°	2.3
75°	2.3
77.5°	2.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)