

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: P251401

Luminaire Tested: **LD8B70D010 ER8B70840 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70840 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6816.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

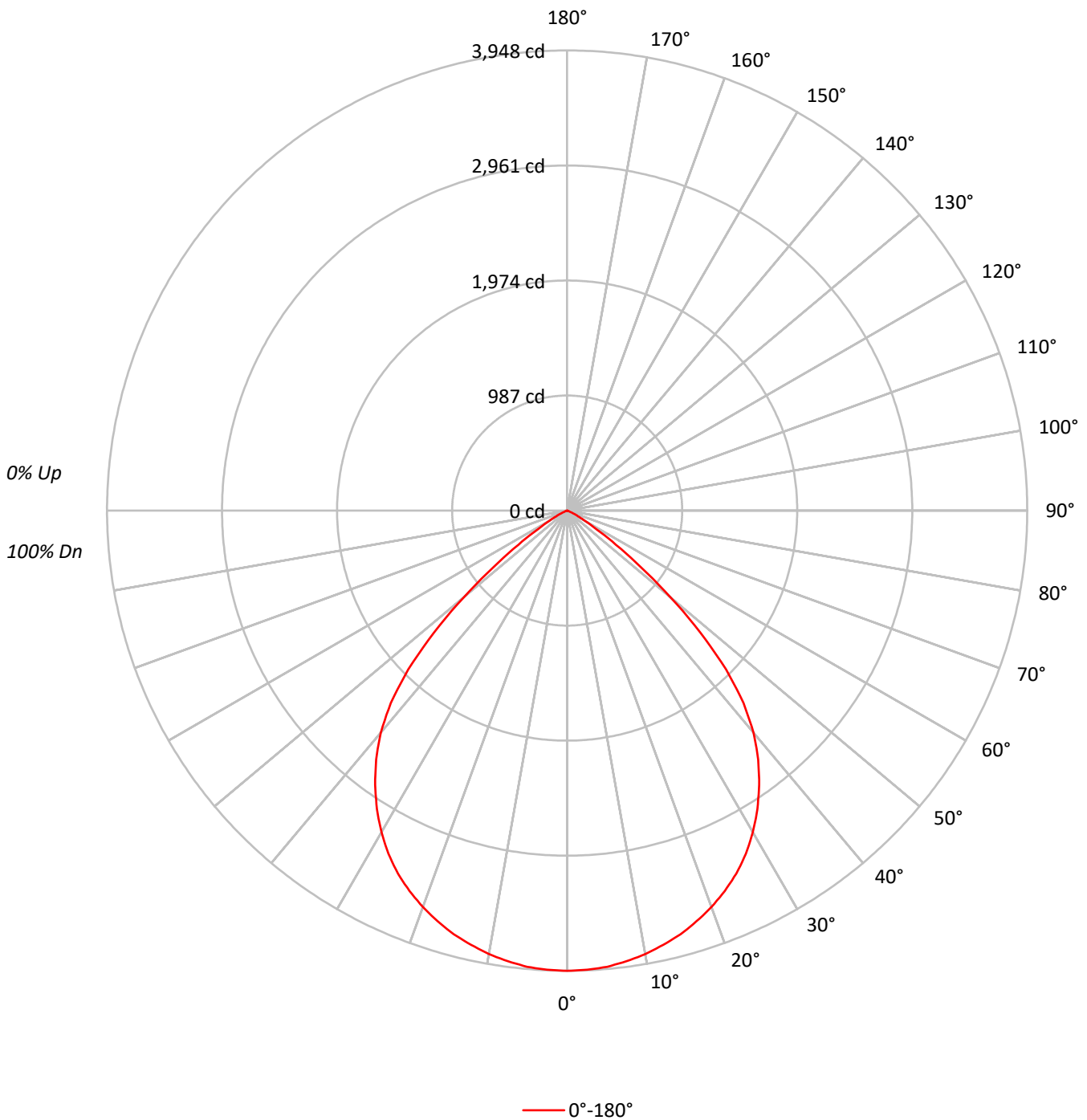
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	101	99		99	97	96		96	94	93	91
2	105	99	94	90	103	98	93	89	94	90	87		91	88	85		88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77		84	80	76		81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62		71	65	61		69	64	61	59
6	80	69	62	56	78	68	61	56	67	60	56		65	60	55		64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	51		60	54	50		59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46		56	50	46		54	49	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

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

	0°
0°	121757
5°	121622
10°	120986
15°	120108
20°	118782
25°	116903
30°	113471
35°	108133
40°	100156
45°	84039
50°	55562
55°	27429
60°	10885
65°	4232
70°	658
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.9	5.5
10°-20°	1060.5	15.6
20°-30°	1578.5	23.2
30°-40°	1787.8	26.2
40°-50°	1445.4	21.2
50°-60°	501.3	7.4
60°-70°	68.6	1.0
70°-80°	0.9	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°	3011.9	44.2
0°-40°	4799.7	70.4
0°-60°	6746.5	99.0
0°-90°	6816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3948	
5°	3929	373
15°	3762	1060
25°	3436	1579
35°	2872	1788
45°	1927	1445
55°	510	501
65°	58	69
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3948.5
2.5°	3943.7
5°	3929.1
7.5°	3900.1
10°	3863.9
12.5°	3815.5
15°	3762.3
17.5°	3694.6
20°	3619.7
22.5°	3532.6
25°	3435.9
27.5°	3319.8
30°	3186.8
32.5°	3036.9
35°	2872.5
37.5°	2691.2
40°	2488.1
42.5°	2239.0
45°	1927.1
47.5°	1549.9
50°	1158.2
52.5°	793.1
55°	510.2
57.5°	302.2
60°	176.5
62.5°	104.0
65°	58.0
67.5°	26.6
70°	7.3
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

(END OF REPORT)