

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: P247140

Luminaire Tested: **LD8B100D010 ER8B1009730 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B1009730 8LBSOLI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9000.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

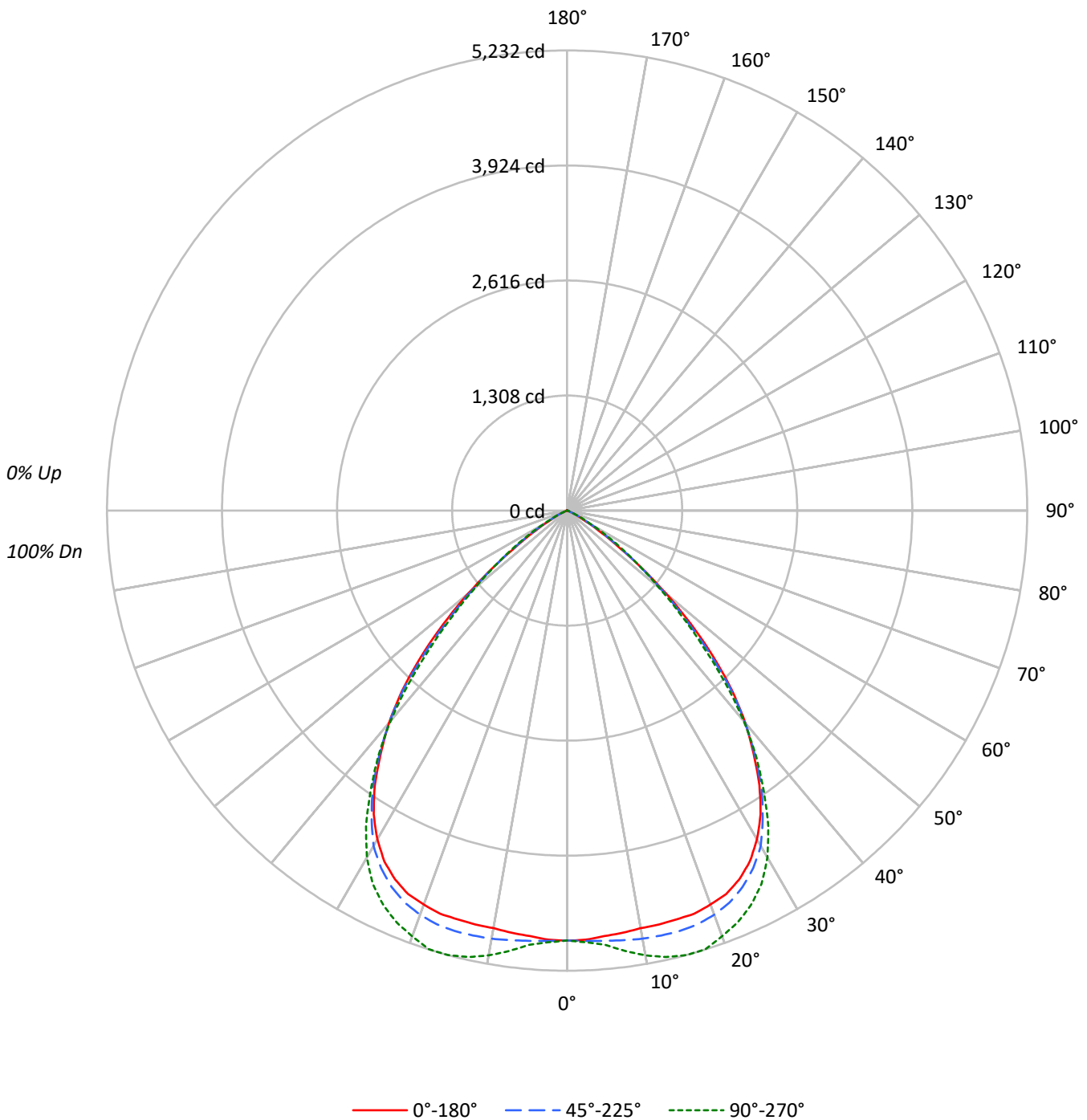
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	94	93	91
2	105	99	94	90	103	97	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	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.4	5.2
10°-20°	1408.4	15.6
20°-30°	2179.4	24.2
30°-40°	2387.1	26.5
40°-50°	1746.4	19.4
50°-60°	685.2	7.6
60°-70°	110.9	1.2
70°-80°	10.2	0.1
80°-90°	2.1	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°	4058.2	45.1
0°-40°	6445.2	71.6
0°-60°	8876.8	98.6
0°-90°	9000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4889	4889	4889	4889	4889	
5°	4857	4869	4911	4946	4957	463
15°	4810	4842	4949	5133	5232	1362
25°	4627	4642	4721	4864	4947	2122
35°	3812	3818	3851	3887	3897	2360
45°	2353	2349	2286	2216	2185	1792
55°	675	689	718	744	769	664
65°	80	78	85	94	100	98
75°	6	9	10	8	10	10
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4888.7	4888.7	4888.7	4888.7	4888.7
2.5°	4883.9	4886.8	4896.4	4905.9	4911.7
5°	4857.1	4868.6	4910.7	4946.1	4956.7
7.5°	4840.8	4860.0	4926.0	5015.1	5049.5
10°	4820.7	4848.5	4942.3	5068.7	5135.7
12.5°	4821.7	4848.5	4948.1	5112.7	5198.9
15°	4810.2	4841.8	4949.0	5132.8	5232.4
17.5°	4807.3	4822.7	4931.8	5118.4	5228.5
20°	4766.2	4787.2	4889.7	5055.3	5150.0
22.5°	4721.2	4730.8	4824.6	4987.3	5067.7
25°	4627.4	4641.7	4721.2	4863.8	4947.1
27.5°	4498.1	4501.0	4581.4	4713.5	4786.3
30°	4317.2	4331.6	4403.4	4501.0	4552.7
32.5°	4093.2	4091.3	4138.2	4223.4	4256.9
35°	3811.8	3818.5	3851.0	3887.4	3897.0
37.5°	3481.5	3490.2	3512.2	3524.6	3533.2
40°	3152.2	3152.2	3149.4	3136.0	3125.4
42.5°	2777.0	2764.6	2750.2	2690.8	2665.0
45°	2352.9	2349.1	2285.9	2216.0	2185.4
47.5°	1906.9	1885.8	1819.7	1763.3	1750.8
50°	1469.4	1447.4	1412.9	1385.1	1367.0
52.5°	1047.2	1031.0	1045.3	1045.3	1043.4
55°	674.9	689.2	717.9	743.8	768.7
57.5°	427.9	447.0	491.1	524.6	533.2
60°	245.1	259.4	290.0	319.7	325.5
62.5°	154.1	155.1	175.2	192.4	202.9
65°	80.4	78.5	85.2	93.8	100.5
67.5°	33.5	33.5	40.2	39.2	49.8
70°	17.2	14.4	16.3	19.1	22.0
72.5°	12.4	9.6	13.4	17.2	7.7
75°	5.7	8.6	10.5	7.7	9.6
77.5°	7.7	7.7	5.7	9.6	1.9
80°	5.7	3.8	6.7	2.9	0.0
82.5°	1.0	1.9	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	2.9	4.8	3.8	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)