

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: P247909

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009730 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: 17781.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

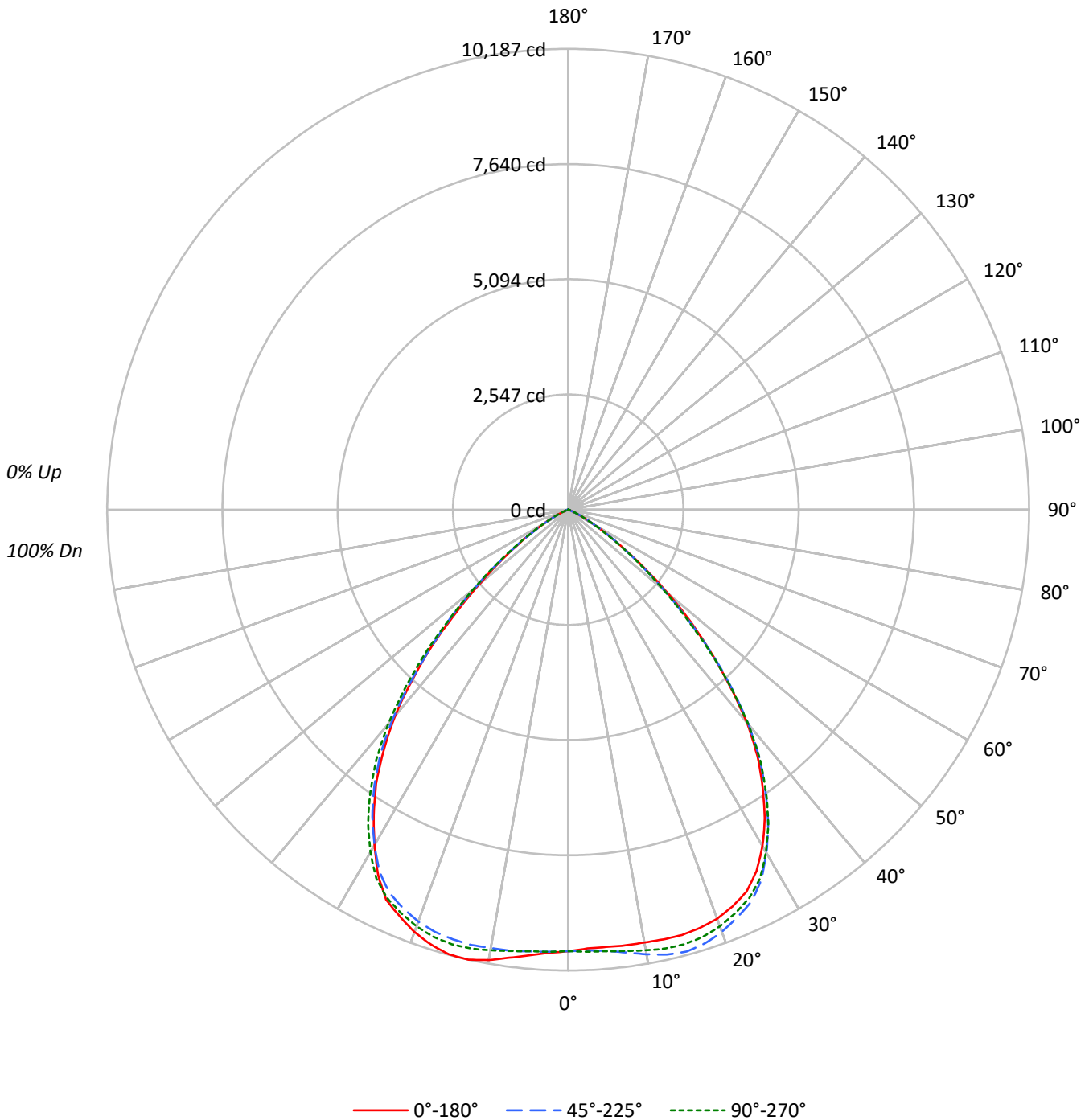
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	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	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	50	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

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

	0°	90°	180°
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°	938.5	5.3
10°-20°	2809.9	15.8
20°-30°	4318.6	24.3
30°-40°	4671.9	26.3
40°-50°	3367.4	18.9
50°-60°	1366.9	7.7
60°-70°	273.0	1.5
70°-80°	27.3	0.2
80°-90°	7.3	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°	8067.0	45.4
0°-40°	12739.0	71.6
0°-60°	17473.3	98.3
0°-90°	17781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17781.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9759	9759	9759	9759	9759	
5°	9703	9785	9796	9800	9887	927
15°	9732	10110	9943	9832	10174	2750
25°	9317	9565	9469	9347	9515	4259
35°	7491	7601	7623	7467	7398	4652
45°	4452	4474	4416	4268	4247	3434
55°	1526	1479	1472	1422	1378	1432
65°	237	257	228	218	234	282
75°	22	26	24	22	24	28
85°	9	13	17	8	7	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9758.8	9758.8	9758.8	9758.8	9758.8	9758.8	9758.8	9758.8	9758.8
2.5°	9708.8	9770.6	9750.0	9723.5	9779.4	9768.6	9780.4	9785.3	9803.9
5°	9702.9	9772.6	9785.3	9756.9	9796.1	9777.5	9800.0	9842.2	9887.3
7.5°	9712.7	9817.6	9872.6	9855.9	9837.3	9773.5	9832.4	9929.4	9989.2
10°	9712.7	9852.0	9979.4	9978.4	9890.2	9771.6	9837.3	10004.9	10109.8
12.5°	9728.4	9899.0	10073.5	10085.3	9935.3	9785.3	9855.9	10053.9	10187.3
15°	9732.4	9900.0	10109.8	10115.7	9943.1	9766.7	9832.4	10045.1	10174.5
17.5°	9691.2	9852.9	10052.0	10072.6	9899.0	9719.6	9786.3	9976.5	10079.4
20°	9622.6	9767.6	9929.4	9963.7	9800.0	9629.4	9688.2	9852.0	9935.3
22.5°	9491.2	9623.5	9756.9	9782.4	9651.0	9502.0	9531.4	9658.8	9728.4
25°	9316.7	9448.0	9564.7	9578.4	9468.6	9335.3	9347.1	9444.1	9514.7
27.5°	9006.9	9131.4	9237.3	9253.9	9188.2	9046.1	9024.5	9070.6	9100.0
30°	8587.3	8672.6	8760.8	8813.7	8737.3	8619.6	8558.8	8583.3	8556.9
32.5°	8083.3	8170.6	8224.5	8241.2	8229.4	8126.5	8054.9	7993.1	7997.1
35°	7491.2	7570.6	7601.0	7631.4	7622.6	7542.2	7466.7	7408.8	7398.0
37.5°	6870.6	6923.5	6957.8	6981.4	6961.8	6910.8	6812.7	6712.7	6696.1
40°	6142.2	6222.6	6195.1	6206.9	6188.2	6123.5	6025.5	5968.6	5952.9
42.5°	5287.3	5357.8	5352.0	5355.9	5314.7	5226.5	5141.2	5109.8	5093.1
45°	4452.0	4486.3	4473.5	4432.4	4415.7	4360.8	4267.6	4207.8	4247.1
47.5°	3665.7	3653.9	3568.6	3535.3	3510.8	3518.6	3498.0	3393.1	3336.3
50°	2875.5	2845.1	2763.7	2713.7	2741.2	2762.7	2686.3	2623.5	2553.9
52.5°	2132.4	2138.2	2060.8	2005.9	2031.4	2035.3	1990.2	1954.9	1934.3
55°	1526.5	1526.5	1479.4	1461.8	1471.6	1452.9	1421.6	1409.8	1378.4
57.5°	1038.2	1045.1	1042.2	1021.6	975.5	958.8	941.2	958.8	969.6
60°	667.6	684.3	681.4	679.4	640.2	601.0	617.6	633.3	635.3
62.5°	410.8	418.6	432.4	420.6	401.0	369.6	365.7	389.2	410.8
65°	237.3	246.1	256.9	249.0	228.4	223.5	217.6	230.4	234.3
67.5°	135.3	131.4	132.4	126.5	120.6	113.7	114.7	120.6	129.4
70°	71.6	61.8	62.7	56.9	61.8	54.9	52.9	57.8	59.8
72.5°	36.3	35.3	40.2	40.2	43.1	38.2	38.2	36.3	41.2
75°	21.6	24.5	26.5	29.4	23.5	22.5	22.5	22.5	23.5
77.5°	5.9	2.9	3.9	12.7	4.9	9.8	4.9	3.9	8.8
80°	16.7	9.8	5.9	10.8	11.8	5.9	14.7	13.7	3.9
82.5°	5.9	0.0	10.8	11.8	9.8	9.8	11.8	11.8	10.8
85°	8.8	5.9	12.7	14.7	16.7	9.8	7.8	4.9	6.9
87.5°	3.9	0.0	5.9	4.9	2.9	1.0	2.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)