

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: P247837

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009730 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14712.0 lumens  
Efficiency: N/A  
Efficacy: 65.9 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

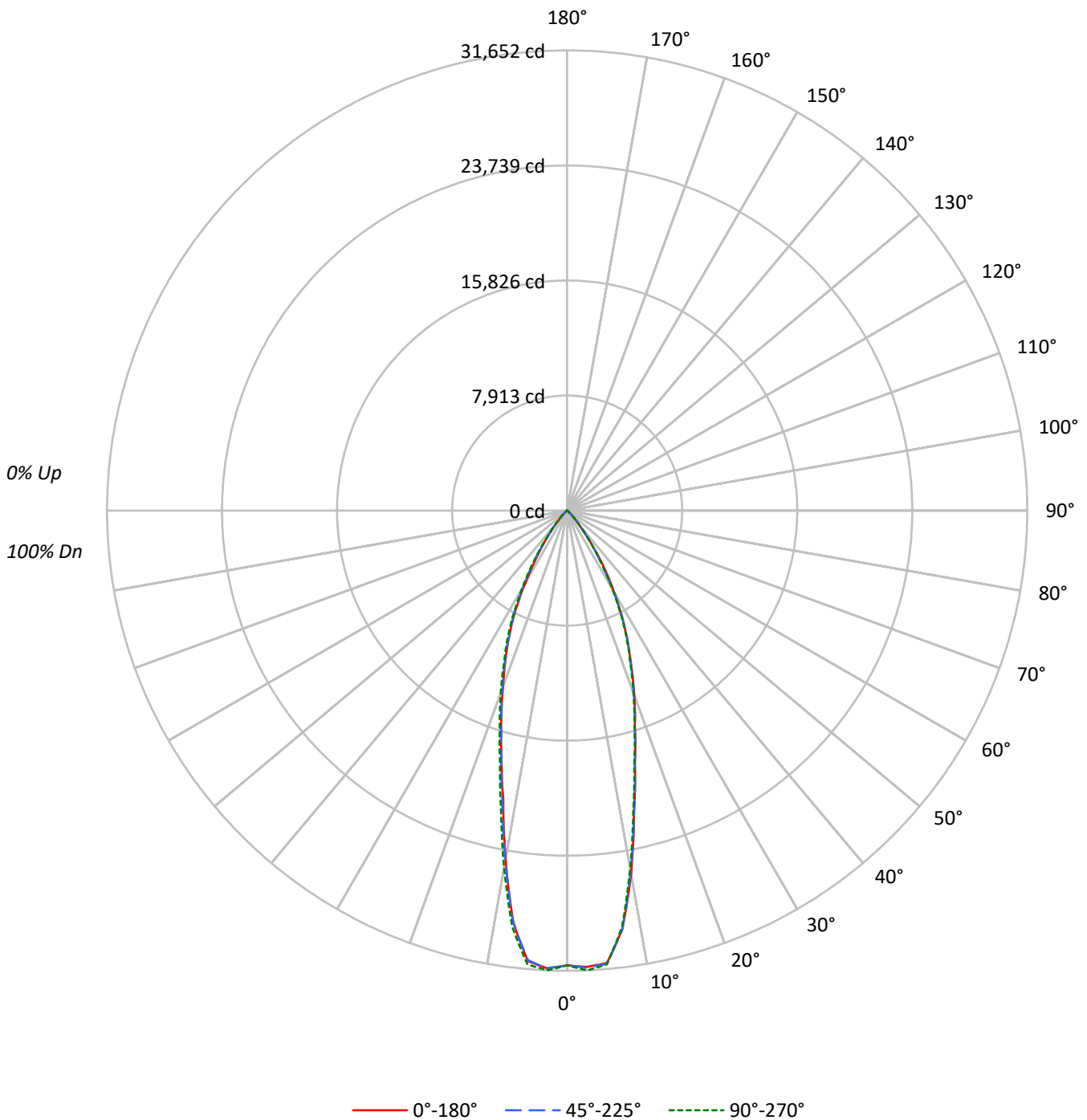
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247837

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBN0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P247837

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBN0LI

**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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95	95	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90	90	90		
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85	85	85	85	85		
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80	80	80	80	80		
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	76	76	76	76		
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	72	72	72	72		
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69	69		
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65	65		
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62	62	62	62	62		
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60	60	60	60	60		

**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°			



TEST NUMBER: P247837

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBN0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2764.9	18.8
10°-20°	5010.3	34.1
20°-30°	4365.6	29.7
30°-40°	2079.4	14.1
40°-50°	432.1	2.9
50°-60°	34.3	0.2
60°-70°	13.3	0.1
70°-80°	5.9	0.0
80°-90°	6.1	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°	12140.8	82.5
0°-40°	14220.2	96.7
0°-60°	14686.7	99.8
0°-90°	14712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14712.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	31280	31280	31280	31280	31280	
5°	31244	31294	31326	31032	31104	###
15°	18024	18026	17841	17472	17430	5090
25°	9797	9787	9680	9389	9358	4454
35°	3416	3300	3270	3104	2993	2187
45°	489	541	502	450	465	432
55°	34	26	26	24	18	37
65°	9	15	19	6	4	13
75°	17	11	10	12	7	8
85°	6	6	11	7	15	5
90°	0	0	0	0	0	



TEST NUMBER: P247837

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBNOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	31280.3	31280.3	31280.3	31280.3	31280.3	31280.3	31280.3	31280.3	31280.3
2.5°	31416.6	31422.5	31471.5	31611.7	31651.9	31620.5	31514.6	31476.4	31514.6
5°	31244.0	31223.4	31294.0	31398.0	31326.4	31198.0	31032.3	30994.0	31103.8
7.5°	29032.3	29018.6	29085.2	29077.4	28888.2	28646.0	28507.8	28398.9	28493.1
10°	25361.7	25239.2	25195.0	25272.5	24960.7	24626.4	24427.4	24500.9	24339.2
12.5°	21229.4	21212.7	21291.1	21196.0	21015.6	20810.7	20566.6	20435.2	20317.6
15°	18024.5	18068.6	18026.4	17987.2	17841.1	17687.2	17471.5	17380.3	17430.3
17.5°	15508.8	15496.0	15451.9	15517.6	15404.9	15184.3	14995.1	15027.4	15082.3
20°	13527.4	13473.5	13369.6	13397.0	13343.1	13171.5	12999.0	12883.3	12902.9
22.5°	11485.3	11532.3	11519.6	11438.2	11353.9	11228.4	11144.1	10993.1	11063.7
25°	9797.0	9804.9	9787.2	9775.5	9680.4	9559.8	9389.2	9352.9	9357.8
27.5°	8069.6	8106.8	8092.1	8042.1	7946.1	7845.1	7739.2	7655.9	7648.0
30°	6388.2	6441.2	6336.3	6264.7	6209.8	6192.1	6014.7	5890.2	5724.5
32.5°	4943.1	4864.7	4530.4	4531.4	4638.2	4680.4	4510.8	4228.4	4182.3
35°	3415.7	3402.0	3300.0	3268.6	3269.6	3228.4	3103.9	2994.1	2993.1
37.5°	2141.2	2192.2	2249.0	2236.3	2110.8	1983.3	1923.5	1988.2	2006.9
40°	1285.3	1352.0	1420.6	1428.4	1336.3	1189.2	1170.6	1230.4	1286.3
42.5°	804.9	833.3	879.4	888.2	822.5	768.6	734.3	777.4	777.4
45°	489.2	515.7	541.2	543.1	502.0	456.9	450.0	466.7	464.7
47.5°	288.2	289.2	299.0	292.2	278.4	256.9	248.0	256.9	258.8
50°	135.3	132.4	137.3	150.0	133.3	112.7	114.7	107.8	97.1
52.5°	32.4	29.4	35.3	38.2	37.3	39.2	37.3	37.3	28.4
55°	34.3	21.6	26.5	27.5	25.5	27.5	23.5	15.7	17.6
57.5°	23.5	24.5	24.5	27.5	23.5	29.4	24.5	17.6	19.6
60°	23.5	16.7	15.7	26.5	21.6	14.7	16.7	22.5	5.9
62.5°	17.6	16.7	18.6	26.5	18.6	21.6	16.7	26.5	17.6
65°	8.8	14.7	14.7	14.7	18.6	16.7	5.9	11.8	3.9
67.5°	12.7	6.9	5.9	12.7	15.7	10.8	4.9	4.9	8.8
70°	3.9	5.9	2.9	6.9	7.8	6.9	4.9	1.0	0.0
72.5°	6.9	2.9	6.9	5.9	9.8	6.9	5.9	4.9	3.9
75°	16.7	12.7	10.8	11.8	9.8	5.9	11.8	11.8	6.9
77.5°	0.0	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0
80°	8.8	6.9	6.9	6.9	3.9	5.9	2.9	1.0	10.8
82.5°	8.8	10.8	10.8	4.9	12.7	7.8	6.9	2.0	10.8
85°	5.9	10.8	5.9	4.9	10.8	8.8	6.9	2.9	14.7
87.5°	0.0	5.9	5.9	3.9	5.9	2.0	4.9	2.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)