

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: P247924

Luminaire Tested: **LD8B200D010 ER8B200850 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200850 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21930.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

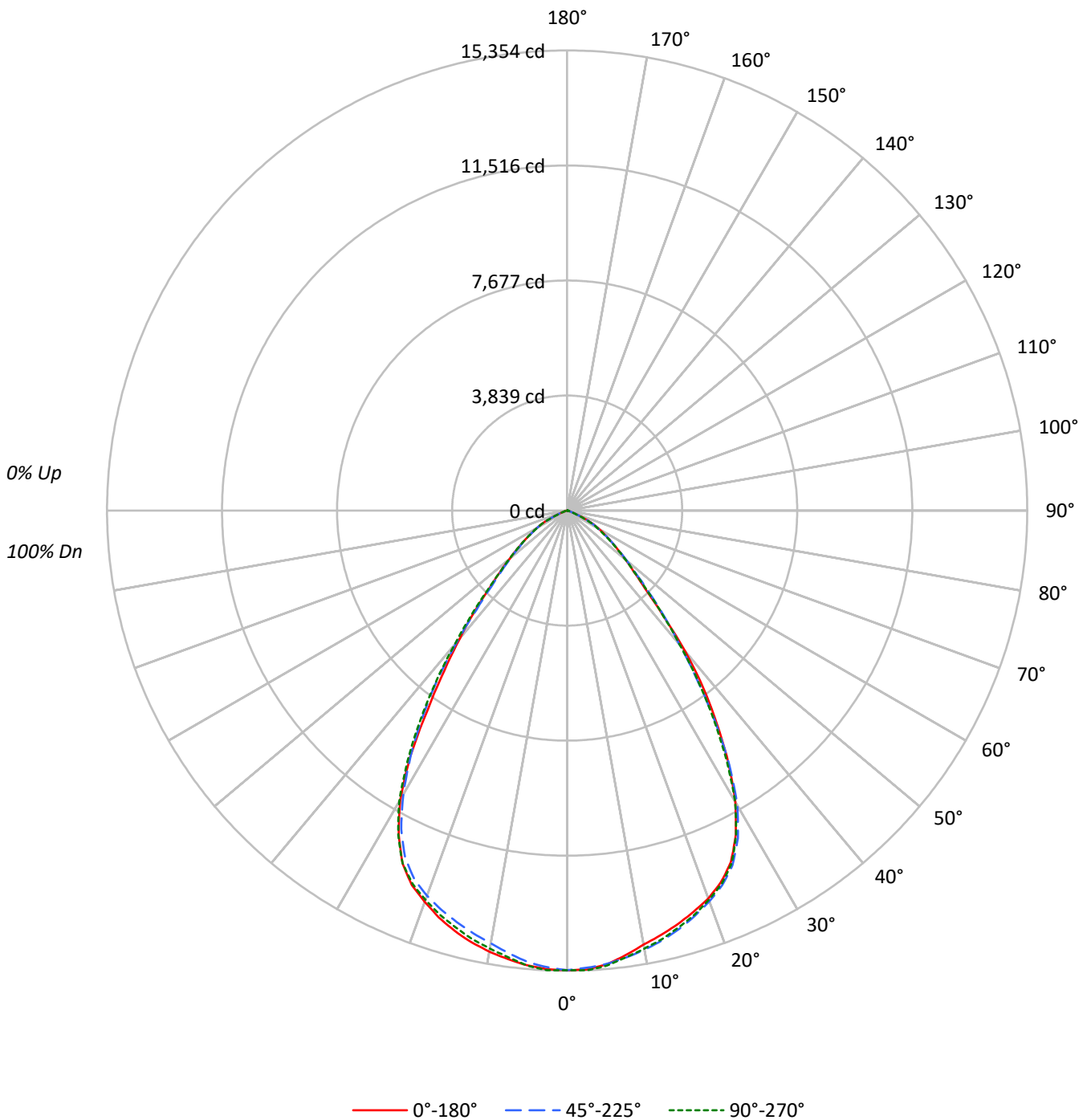
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247924

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P247924

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBW0H

**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	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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	90°	180°
0°	472884	472884	472884
5°	470434	471768	471518
10°	460381	464645	467895
15°	455870	459525	463356
20°	451962	453600	455854
25°	440081	441779	442147
30°	399450	399066	396377
35°	328882	321527	305437
40°	245923	234854	224219
45°	159252	163425	159723
50°	121904	121256	120738
55°	95518	93782	92980
60°	75987	71830	72829
65°	49872	44064	44560
70°	17870	16409	17013
75°	6422	7875	6422
80°	4067	5754	4795
85°	955	2866	1911



TEST NUMBER: P247924

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBW0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1436.4	6.5
10°-20°	4049.5	18.5
20°-30°	5871.0	26.8
30°-40°	5277.3	24.1
40°-50°	2973.8	13.6
50°-60°	1584.5	7.2
60°-70°	633.3	2.9
70°-80°	84.3	0.4
80°-90°	19.9	0.1
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°	11356.9	51.8
0°-40°	16634.2	75.9
0°-60°	21192.5	96.6
0°-90°	21930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	15335	15335	15335	15335	15335	
5°	15198	15184	15241	15121	15233	###
15°	14280	14446	14394	14216	14514	4029
25°	12934	13056	12984	12783	12995	5871
35°	8737	8611	8541	8422	8114	5421
45°	3652	3850	3748	3571	3663	3000
55°	1777	1782	1744	1704	1730	1619
65°	684	651	604	586	611	677
75°	54	69	66	65	54	80
85°	3	16	8	23	5	8
90°	0	0	0	0	0	



TEST NUMBER: P247924

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBW0H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	15335.3	15335.3	15335.3	15335.3	15335.3	15335.3	15335.3	15335.3	15335.3
2.5°	15324.5	15292.1	15267.9	15313.7	15354.2	15243.6	15251.7	15300.2	15316.4
5°	15197.8	15168.1	15184.3	15222.0	15240.9	15102.1	15120.9	15203.2	15232.8
7.5°	14960.5	14983.4	15041.4	15089.9	15033.3	14870.2	14897.2	15038.7	15096.7
10°	14703.0	14757.0	14878.3	14934.9	14839.2	14630.3	14661.3	14851.3	14943.0
12.5°	14498.1	14557.5	14684.2	14727.3	14642.4	14417.3	14449.6	14646.4	14755.6
15°	14279.8	14333.7	14445.6	14480.6	14394.3	14186.7	14216.4	14405.1	14514.3
17.5°	14033.1	14080.3	14180.0	14212.4	14136.9	13917.1	13964.3	14139.6	14235.3
20°	13772.9	13806.6	13876.7	13895.6	13822.8	13657.0	13678.5	13829.5	13891.5
22.5°	13418.4	13461.5	13526.2	13546.4	13479.0	13297.0	13317.3	13465.5	13533.0
25°	12934.4	12997.8	13055.7	13081.4	12984.3	12743.0	12783.4	12910.2	12995.1
27.5°	12183.6	12234.8	12337.2	12339.9	12206.5	11955.7	11989.4	12152.6	12174.1
30°	11218.4	11265.6	11355.9	11335.6	11207.6	10909.7	10936.6	11095.7	11132.1
32.5°	10036.1	10053.7	10077.9	10071.2	9914.8	9774.6	9719.4	9738.2	9751.7
35°	8736.6	8767.6	8611.3	8526.3	8541.2	8553.3	8422.5	8228.4	8113.8
37.5°	7477.6	7329.3	7136.5	7070.5	7193.1	7233.6	7114.9	6825.1	6718.6
40°	6109.3	5977.2	5824.9	5837.0	5834.3	5862.6	5713.0	5606.5	5570.1
42.5°	4702.0	4703.3	4803.1	4734.3	4720.8	4524.0	4466.0	4525.4	4590.1
45°	3651.8	3773.2	3850.0	3829.8	3747.5	3571.0	3571.0	3674.8	3662.6
47.5°	3006.1	3049.3	3107.2	3103.2	3043.9	2914.5	2936.0	3007.5	3043.9
50°	2541.1	2559.9	2586.9	2564.0	2527.6	2446.7	2445.3	2495.2	2516.8
52.5°	2125.9	2136.6	2129.9	2117.8	2097.5	2054.4	2040.9	2082.7	2088.1
55°	1776.7	1796.9	1782.1	1748.4	1744.4	1705.3	1703.9	1737.6	1729.5
57.5°	1480.1	1459.9	1439.7	1411.4	1407.4	1395.2	1408.7	1414.1	1406.0
60°	1232.1	1233.5	1194.4	1167.4	1164.7	1147.2	1166.1	1180.9	1180.9
62.5°	992.2	986.8	962.5	922.1	928.8	922.1	930.1	932.8	920.7
65°	683.5	684.8	651.1	602.6	603.9	598.5	586.4	605.3	610.7
67.5°	364.0	361.3	335.7	318.1	311.4	314.1	327.6	331.6	316.8
70°	198.2	191.4	196.8	177.9	182.0	175.2	182.0	192.8	188.7
72.5°	101.1	107.8	97.1	89.0	99.8	98.4	114.6	105.1	94.4
75°	53.9	58.0	68.7	63.4	66.1	63.4	64.7	60.7	53.9
77.5°	39.1	43.1	49.9	48.5	47.2	44.5	49.9	55.3	44.5
80°	22.9	28.3	31.0	36.4	32.4	36.4	41.8	33.7	27.0
82.5°	14.8	22.9	22.9	24.3	35.0	22.9	37.7	33.7	27.0
85°	2.7	4.0	16.2	9.4	8.1	24.3	22.9	17.5	5.4
87.5°	0.0	9.4	21.6	10.8	17.5	16.2	22.9	24.3	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)