

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: P247801

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009730 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16793.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

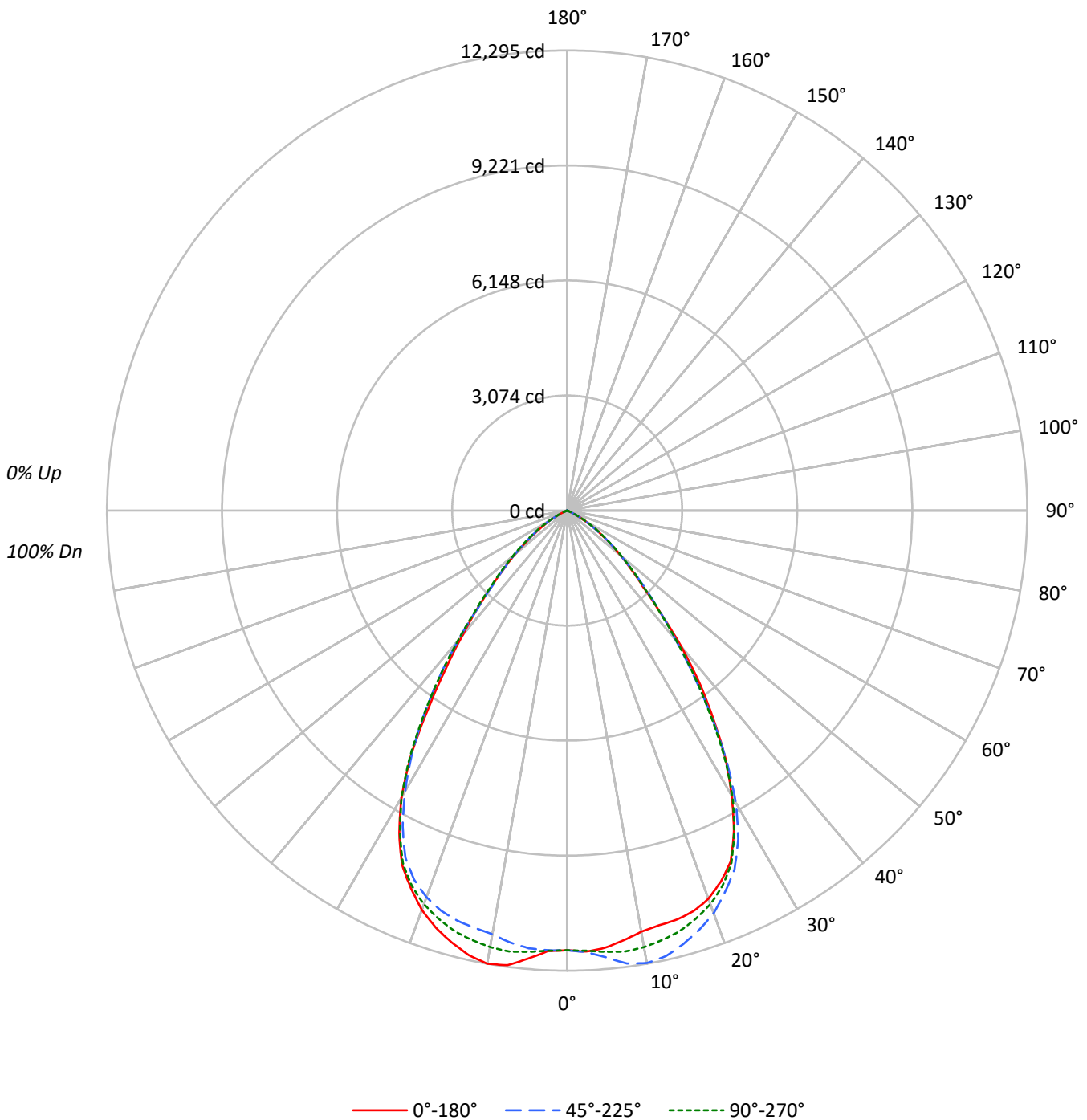
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41			

**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°	1131.8	6.7
10°-20°	3278.0	19.5
20°-30°	4701.8	28.0
30°-40°	4149.1	24.7
40°-50°	2297.3	13.7
50°-60°	1012.3	6.0
60°-70°	204.5	1.2
70°-80°	15.3	0.1
80°-90°	2.8	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°	9111.6	54.3
0°-40°	13260.7	79.0
0°-60°	16570.3	98.7
0°-90°	16793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11745	11745	11745	11745	11745	
5°	11724	11982	11835	11739	12018	###
15°	11318	11991	11629	11345	11940	3193
25°	10344	10576	10388	10232	10443	4673
35°	6829	6731	6682	6687	6480	4236
45°	2841	2962	2911	2802	2817	2314
55°	1109	1104	1141	1082	1036	1016
65°	144	155	179	163	151	199
75°	15	15	11	12	18	14
85°	11	6	3	9	4	5
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°	11744.9	11744.9	11744.9	11744.9	11744.9	11744.9	11744.9	11744.9	11744.9
2.5°	11793.9	11744.9	11809.6	11769.4	11772.4	11711.6	11759.6	11805.7	11780.2
5°	11724.3	11769.4	11982.2	11976.3	11835.1	11651.8	11739.0	11948.8	12017.5
7.5°	11580.2	11743.0	12204.7	12246.9	11884.1	11497.9	11640.0	12077.3	12251.8
10°	11423.4	11657.7	12278.2	12360.6	11843.9	11335.1	11495.9	12046.9	12294.9
12.5°	11347.9	11574.3	12193.0	12272.4	11751.8	11256.7	11419.4	11931.2	12161.6
15°	11317.5	11488.1	11991.0	12063.5	11629.2	11212.6	11344.9	11763.5	11940.0
17.5°	11225.3	11343.0	11741.0	11787.1	11435.1	11104.7	11208.7	11529.2	11683.2
20°	11038.1	11116.5	11450.8	11475.3	11192.0	10911.6	10992.0	11244.9	11349.8
22.5°	10729.2	10781.2	11028.3	11037.1	10851.8	10608.7	10675.3	10873.4	10912.6
25°	10344.0	10348.9	10576.3	10534.2	10388.1	10162.6	10232.2	10401.8	10443.0
27.5°	9650.8	9667.5	9897.9	9842.0	9669.5	9473.4	9516.5	9671.4	9712.6
30°	8791.0	8884.2	9017.5	8990.1	8842.0	8645.0	8653.8	8805.7	8849.9
32.5°	7887.1	7859.7	7928.3	7907.7	7831.3	7675.4	7727.3	7766.5	7777.3
35°	6829.3	6806.8	6731.3	6636.2	6682.3	6743.0	6687.2	6600.9	6480.3
37.5°	5812.7	5686.2	5539.1	5440.1	5603.8	5667.6	5612.7	5425.4	5328.4
40°	4734.2	4600.9	4521.5	4497.0	4546.0	4593.1	4531.3	4440.1	4344.1
42.5°	3650.9	3649.9	3669.6	3664.7	3631.3	3563.7	3514.7	3553.9	3538.2
45°	2841.1	2885.3	2961.7	2974.5	2910.7	2811.7	2801.9	2839.2	2816.6
47.5°	2312.7	2328.4	2355.8	2395.1	2358.8	2308.8	2283.3	2295.1	2274.5
50°	1864.7	1868.6	1881.3	1910.8	1897.0	1862.7	1838.2	1823.5	1815.7
52.5°	1464.7	1455.9	1465.7	1475.5	1494.1	1471.5	1451.0	1419.6	1395.1
55°	1108.8	1101.9	1103.9	1111.7	1141.2	1115.7	1082.3	1061.7	1036.3
57.5°	804.9	782.3	787.2	813.7	841.2	830.4	801.0	767.6	736.3
60°	542.1	537.2	536.3	564.7	585.3	581.4	548.0	523.5	512.7
62.5°	320.6	317.6	325.5	338.2	362.7	345.1	322.5	309.8	305.9
65°	144.1	151.0	154.9	164.7	179.4	175.5	162.7	149.0	151.0
67.5°	62.7	48.0	53.9	60.8	56.9	59.8	52.9	55.9	53.9
70°	30.4	32.4	30.4	38.2	35.3	37.3	30.4	36.3	28.4
72.5°	21.6	18.6	23.5	27.5	23.5	27.5	24.5	18.6	14.7
75°	14.7	8.8	14.7	8.8	10.8	15.7	11.8	15.7	17.6
77.5°	2.0	6.9	2.9	3.9	2.0	4.9	4.9	2.9	8.8
80°	2.0	2.9	2.0	3.9	5.9	1.0	3.9	8.8	0.0
82.5°	6.9	0.0	1.0	0.0	1.0	2.0	0.0	2.0	0.0
85°	10.8	2.9	5.9	13.7	2.9	5.9	8.8	3.9	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)