

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: P247446

Luminaire Tested: **LD8B80D010 ER8B80850 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80850 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9452.0 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

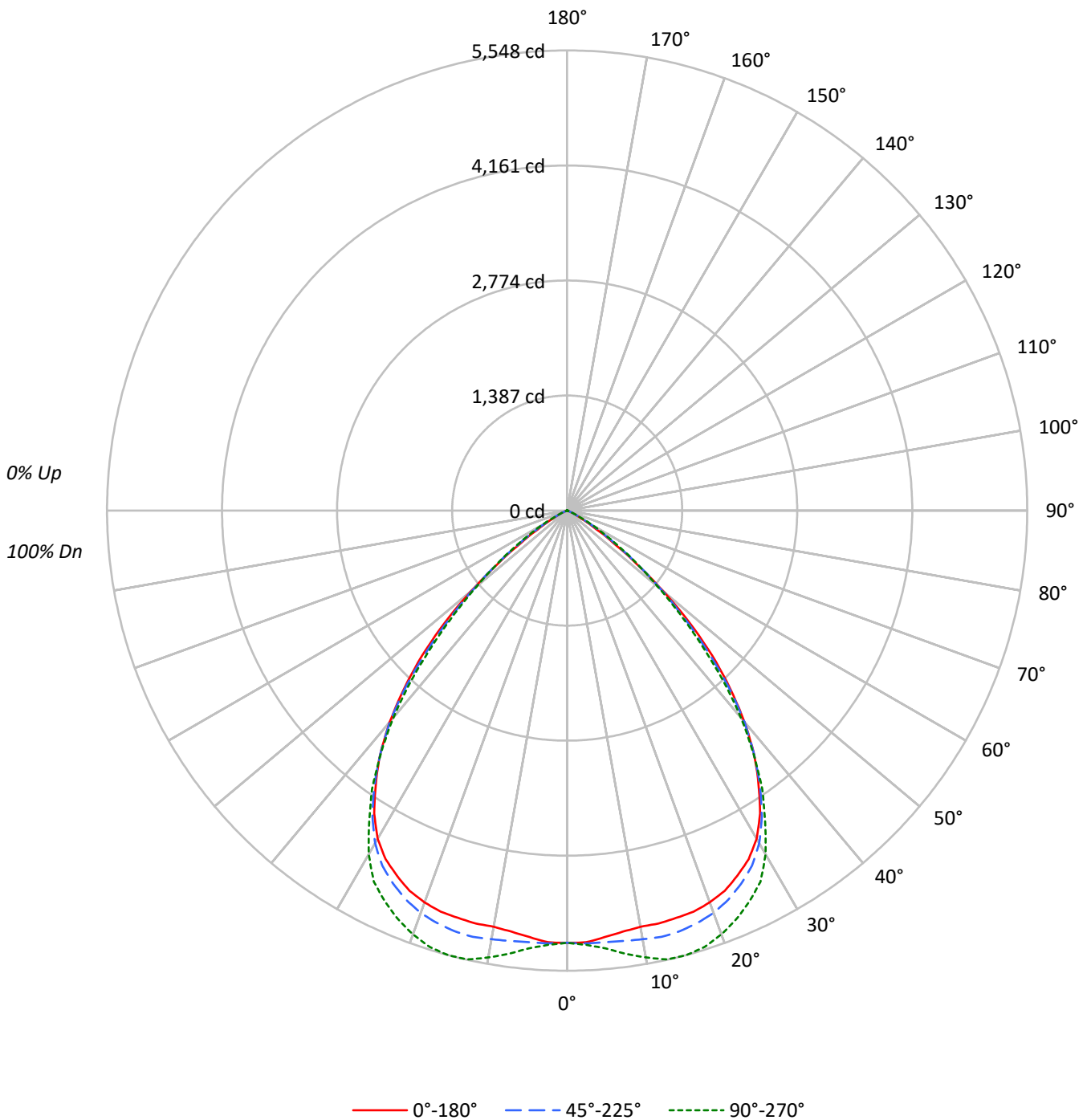
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247446

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBS0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P247446

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBS0WH

**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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	160694	160694	160694
5°	159804	161717	163973
10°	159528	164316	171292
15°	162321	167624	177131
20°	164959	169380	178420
25°	165245	168899	176895
30°	162726	164852	170335
35°	151446	152440	154345
40°	133856	133691	131288
45°	107819	103803	99782
50°	72401	70506	68126
55°	36757	39913	42364
60°	15054	18428	21487
65°	5618	5983	7019
70°	370	370	270
75°	727	1203	1573
80°	178	0	0
85°	708	0	708



TEST NUMBER: P247446

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBS0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.4	5.3
10°-20°	1491.3	15.8
20°-30°	2294.9	24.3
30°-40°	2513.5	26.6
40°-50°	1827.6	19.3
50°-60°	703.0	7.4
60°-70°	110.1	1.2
70°-80°	7.9	0.1
80°-90°	3.2	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°	4286.6	45.4
0°-40°	6800.1	71.9
0°-60°	9330.8	98.7
0°-90°	9452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9452.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5211	5211	5211	5211	5211	
5°	5163	5189	5224	5274	5297	491
15°	5085	5124	5251	5445	5548	1439
25°	4857	4886	4964	5111	5199	2234
35°	4023	4023	4050	4075	4100	2498
45°	2472	2447	2380	2320	2288	1880
55°	684	702	742	767	788	668
65°	77	80	82	93	96	94
75°	6	13	10	13	13	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



TEST NUMBER: P247446

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBS0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5211.2	5211.2	5211.2	5211.2	5211.2
2.5°	5210.2	5218.3	5223.4	5234.5	5239.6
5°	5162.6	5189.0	5224.4	5274.0	5297.3
7.5°	5121.1	5157.6	5233.5	5340.9	5388.5
10°	5094.8	5134.3	5247.7	5393.6	5470.5
12.5°	5097.8	5141.4	5263.9	5439.1	5542.4
15°	5084.6	5124.1	5250.7	5445.2	5548.5
17.5°	5069.4	5101.8	5214.3	5404.7	5516.1
20°	5026.9	5054.2	5161.6	5333.8	5437.1
22.5°	4963.1	4988.4	5077.5	5237.6	5332.8
25°	4856.7	4886.1	4964.1	5111.0	5199.1
27.5°	4738.2	4755.4	4827.4	4961.1	5045.1
30°	4570.1	4576.2	4629.8	4733.2	4783.8
32.5°	4330.0	4329.0	4369.5	4421.2	4440.4
35°	4023.1	4023.1	4049.5	4074.8	4100.1
37.5°	3704.1	3700.0	3703.1	3709.1	3687.9
40°	3325.3	3317.2	3321.2	3284.8	3261.5
42.5°	2910.0	2917.1	2876.6	2811.7	2787.4
45°	2472.4	2447.1	2380.3	2319.5	2288.1
47.5°	2007.5	1968.0	1904.2	1841.4	1836.3
50°	1509.2	1511.2	1469.7	1434.2	1420.1
52.5°	1047.3	1058.5	1079.7	1083.8	1088.8
55°	683.7	701.9	742.4	766.7	788.0
57.5°	418.3	451.7	486.2	531.8	535.8
60°	244.1	260.3	298.8	333.2	348.4
62.5°	137.8	152.9	161.0	181.3	186.4
65°	77.0	80.0	82.0	93.2	96.2
67.5°	46.6	48.6	50.6	49.6	51.7
70°	4.1	9.1	4.1	5.1	3.0
72.5°	17.2	11.1	12.2	9.1	6.1
75°	6.1	13.2	10.1	13.2	13.2
77.5°	4.1	3.0	5.1	6.1	5.1
80°	1.0	0.0	0.0	0.0	0.0
82.5°	9.1	8.1	5.1	8.1	3.0
85°	2.0	0.0	0.0	0.0	2.0
87.5°	6.1	3.0	3.0	7.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)