

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: P247155

Luminaire Tested: **LD8B90D010 ER8B90840 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247155  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90840 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9437.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

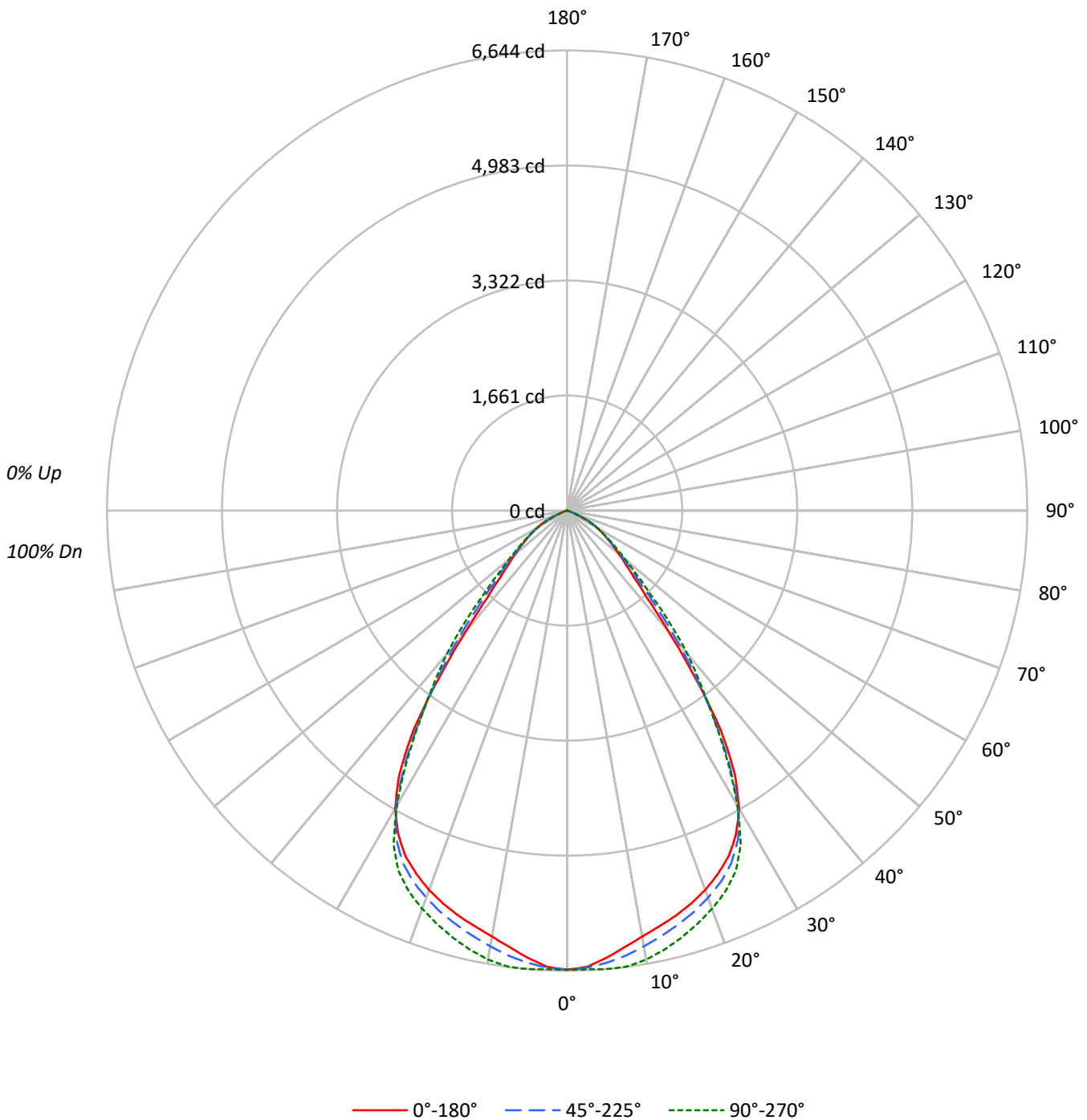
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247155

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P247155

CATALOG NUMBER: LD8B90D010 ER8B90840 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	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	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	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	204442	204442	204442
5°	200685	202867	205675
10°	195544	199993	206055
15°	193329	197578	203724
20°	191310	195163	200744
25°	187544	190933	195727
30°	176823	176025	174950
35°	145450	140439	139637
40°	91079	100490	108645
45°	59435	66268	73442
50°	46865	49119	52338
55°	38198	38864	40063
60°	31262	31052	30916
65°	20248	19679	18613
70°	6960	6455	5951
75°	2395	2264	2133
80°	994	799	799
85°	389	389	389



TEST NUMBER: P247155

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBW0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.0	6.6
10°-20°	1749.8	18.5
20°-30°	2559.1	27.1
30°-40°	2318.9	24.6
40°-50°	1233.0	13.1
50°-60°	658.1	7.0
60°-70°	268.4	2.8
70°-80°	27.1	0.3
80°-90°	1.6	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°	4930.0	52.2
0°-40°	7248.9	76.8
0°-60°	9140.0	96.9
0°-90°	9437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9437.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6630	6630	6630	6630	6630	
5°	6483	6500	6554	6613	6644	611
15°	6056	6091	6189	6317	6382	1708
25°	5512	5536	5612	5708	5753	2519
35°	3864	3810	3731	3703	3709	2322
45°	1363	1403	1520	1640	1684	1115
55°	710	709	723	733	745	644
65°	278	276	270	254	255	277
75°	20	20	19	18	18	29
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P247155

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBW0H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6629.9	6629.9	6629.9	6629.9	6629.9
2.5°	6594.1	6593.0	6605.3	6619.9	6627.7
5°	6483.3	6500.1	6553.8	6613.1	6644.5
7.5°	6358.0	6389.3	6482.2	6584.0	6638.9
10°	6245.0	6285.3	6387.1	6520.3	6580.7
12.5°	6147.6	6186.8	6289.8	6426.3	6492.3
15°	6055.9	6090.6	6189.0	6316.6	6381.5
17.5°	5949.6	5983.2	6078.3	6199.1	6255.1
20°	5829.9	5857.8	5947.3	6060.4	6117.4
22.5°	5681.0	5711.2	5801.9	5905.9	5959.7
25°	5512.1	5535.6	5611.7	5707.9	5752.6
27.5°	5277.1	5298.3	5343.1	5394.6	5428.1
30°	4966.0	4960.4	4943.6	4928.0	4913.4
32.5°	4507.2	4453.5	4371.8	4320.4	4322.6
35°	3863.8	3810.1	3730.7	3702.7	3709.4
37.5°	3019.0	3059.3	3091.7	3145.4	3171.2
40°	2262.6	2331.9	2496.4	2639.7	2699.0
42.5°	1700.8	1769.1	1941.4	2092.5	2174.2
45°	1362.9	1403.2	1519.6	1640.4	1684.1
47.5°	1141.4	1159.3	1226.4	1303.6	1341.6
50°	976.9	988.1	1023.9	1066.4	1091.0
52.5°	837.0	841.5	859.4	884.0	899.7
55°	710.5	709.4	722.9	732.9	745.2
57.5°	600.9	599.8	599.8	603.1	611.0
60°	506.9	503.5	503.5	499.1	501.3
62.5°	412.9	409.5	401.7	396.1	393.9
65°	277.5	276.4	269.7	254.0	255.1
67.5°	144.3	143.2	136.5	132.0	129.8
70°	77.2	75.0	71.6	68.3	66.0
72.5°	39.2	38.0	36.9	34.7	34.7
75°	20.1	20.1	19.0	17.9	17.9
77.5°	10.1	10.1	9.0	9.0	9.0
80°	5.6	5.6	4.5	4.5	4.5
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)