

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: P247703

Luminaire Tested: **LD8B90D010 ER8B90940 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90940 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8683.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

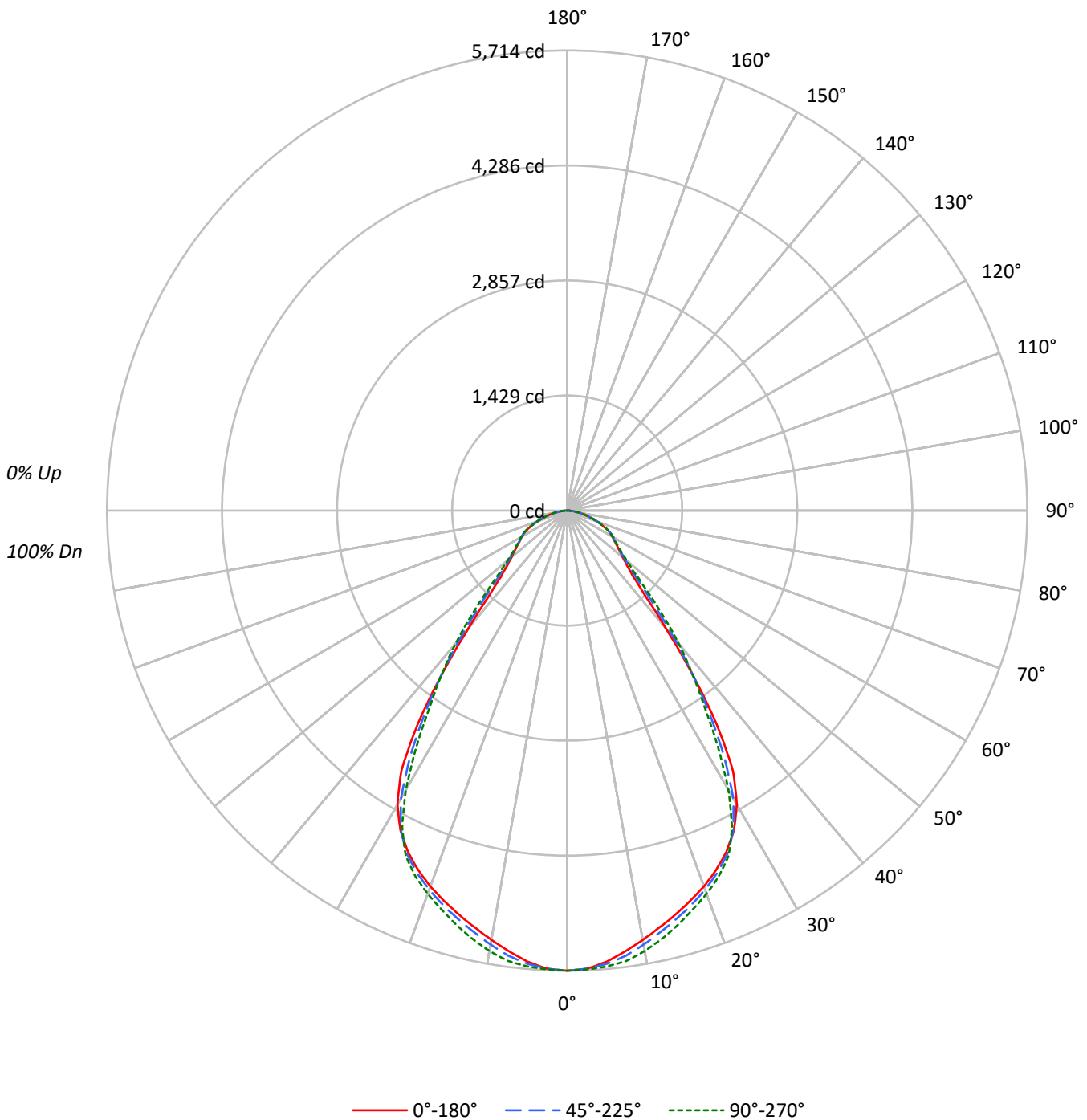
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	176199	176199	176199
5°	174046	174884	175878
10°	169495	171380	173891
15°	165795	167557	169958
20°	162951	164333	166144
25°	159124	160111	161169
30°	150022	146806	142484
35°	121786	116309	111856
40°	76160	82661	86659
45°	50748	55514	60242
50°	43262	44562	46102
55°	40450	40988	41579
60°	40093	40340	40710
65°	39087	39525	39817
70°	35451	35721	36001
75°	30953	31311	31430
80°	26371	26371	27081
85°	21299	21299	21299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.9	6.1
10°-20°	1481.4	17.1
20°-30°	2141.6	24.7
30°-40°	1916.6	22.1
40°-50°	1037.2	11.9
50°-60°	691.3	8.0
60°-70°	529.4	6.1
70°-80°	280.5	3.2
80°-90°	71.0	0.8
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°	4156.9	47.9
0°-40°	6073.5	69.9
0°-60°	7802.0	89.9
0°-90°	8683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5714	5714	5714	5714	5714	
5°	5623	5626	5650	5672	5682	530
15°	5193	5203	5249	5300	5324	1465
25°	4677	4688	4706	4728	4737	2140
35°	3235	3202	3090	3000	2971	1958
45°	1164	1198	1273	1352	1381	958
55°	752	755	762	770	773	681
65°	536	538	542	546	546	525
75°	260	260	263	264	264	279
85°	60	60	60	61	60	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5714.0	5714.0	5714.0	5714.0	5714.0
2.5°	5695.0	5693.0	5694.0	5700.0	5703.0
5°	5622.7	5625.7	5649.8	5671.9	5681.9
7.5°	5521.4	5534.5	5575.6	5618.7	5640.8
10°	5413.1	5426.1	5473.3	5534.5	5553.5
12.5°	5301.7	5317.8	5359.9	5422.1	5445.2
15°	5193.4	5203.4	5248.6	5299.7	5323.8
17.5°	5082.0	5092.1	5133.2	5173.3	5192.4
20°	4965.7	4976.7	5007.8	5041.9	5063.0
22.5°	4832.2	4843.3	4869.4	4899.5	4918.5
25°	4676.8	4687.8	4705.8	4727.9	4736.9
27.5°	4480.1	4487.2	4470.1	4452.0	4436.0
30°	4213.3	4191.2	4123.0	4035.7	4001.6
32.5°	3834.1	3762.9	3631.5	3525.1	3486.0
35°	3235.2	3202.1	3089.7	3000.5	2971.4
37.5°	2537.0	2559.1	2551.0	2545.0	2551.0
40°	1892.0	1943.1	2053.5	2128.7	2152.8
42.5°	1432.5	1481.7	1606.1	1710.4	1746.5
45°	1163.7	1197.8	1273.0	1352.3	1381.4
47.5°	1004.2	1023.2	1061.3	1103.5	1117.5
50°	901.8	909.9	928.9	953.0	961.0
52.5°	820.6	824.6	835.6	848.7	850.7
55°	752.4	755.4	762.4	770.4	773.4
57.5°	695.2	698.2	700.2	705.2	707.2
60°	650.1	650.1	654.1	658.1	660.1
62.5°	600.9	600.9	604.9	608.9	608.9
65°	535.7	537.7	541.7	545.7	545.7
67.5°	464.5	465.5	468.5	472.5	471.5
70°	393.2	393.2	396.2	398.3	399.3
72.5°	325.0	324.0	329.0	330.0	327.0
75°	259.8	259.8	262.8	263.8	263.8
77.5°	202.6	201.6	201.6	202.6	203.6
80°	148.5	149.5	148.5	150.5	152.5
82.5°	103.3	102.3	102.3	102.3	101.3
85°	60.2	60.2	60.2	61.2	60.2
87.5°	24.1	24.1	23.1	23.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)