

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: P247129

Luminaire Tested: **LD8B120D010 ER8B120940 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120940 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12336.0 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

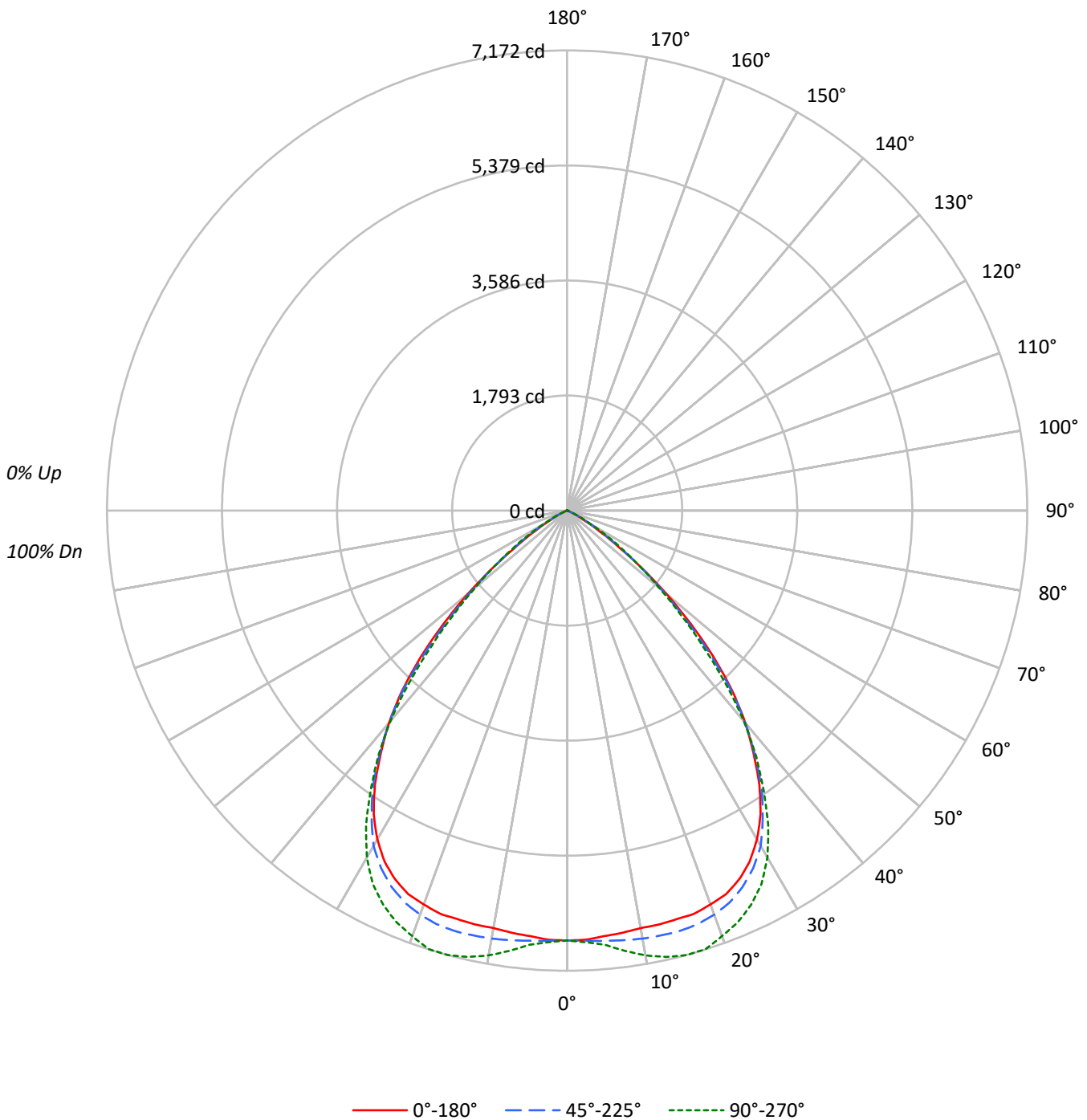
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

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

	0°	45°	90°
0°	206628	206628	206628
5°	206077	208352	210299
10°	206897	212117	220415
15°	210482	216554	228953
20°	214376	219932	231643
25°	215801	220177	230711
30°	210703	214908	222193
35°	196680	198705	201076
40°	173925	173764	172444
45°	140644	136636	130631
50°	96617	92904	89882
55°	49729	52907	56643
60°	20716	24521	27512
65°	8041	8522	10055
70°	2128	2011	2723
75°	941	1716	1561
80°	1403	1634	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.8	5.2
10°-20°	1930.5	15.6
20°-30°	2987.2	24.2
30°-40°	3271.9	26.5
40°-50°	2393.7	19.4
50°-60°	939.2	7.6
60°-70°	152.0	1.2
70°-80°	14.0	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°	5562.4	45.1
0°-40°	8834.3	71.6
0°-60°	12167.2	98.6
0°-90°	12336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12336.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6701	6701	6701	6701	6701	
5°	6658	6673	6731	6780	6794	634
15°	6593	6636	6783	7035	7172	1867
25°	6343	6362	6471	6667	6781	2908
35°	5225	5234	5278	5328	5342	3235
45°	3225	3220	3133	3038	2996	2456
55°	925	945	984	1020	1054	910
65°	110	108	117	129	138	134
75°	8	12	14	10	13	13
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6700.8	6700.8	6700.8	6700.8	6700.8
2.5°	6694.2	6698.2	6711.3	6724.4	6732.3
5°	6657.5	6673.2	6731.0	6779.5	6793.9
7.5°	6635.2	6661.4	6752.0	6874.0	6921.2
10°	6607.6	6645.7	6774.3	6947.5	7039.3
12.5°	6608.9	6645.7	6782.1	7007.8	7125.9
15°	6593.2	6636.5	6783.4	7035.4	7171.8
17.5°	6589.3	6610.2	6759.8	7015.7	7166.6
20°	6532.8	6561.7	6702.1	6929.1	7059.0
22.5°	6471.2	6484.3	6612.9	6835.9	6946.1
25°	6342.6	6362.3	6471.2	6666.7	6780.8
27.5°	6165.5	6169.4	6279.6	6460.7	6560.4
30°	5917.5	5937.2	6035.6	6169.4	6240.2
32.5°	5610.4	5607.8	5672.1	5788.9	5834.8
35°	5224.7	5233.9	5278.5	5328.3	5341.5
37.5°	4772.0	4783.8	4814.0	4831.1	4842.9
40°	4320.7	4320.7	4316.7	4298.4	4283.9
42.5°	3806.3	3789.3	3769.6	3688.3	3652.8
45°	3225.1	3219.8	3133.2	3037.5	2995.5
47.5°	2613.7	2584.8	2494.3	2416.8	2399.8
50°	2014.0	1983.9	1936.6	1898.6	1873.6
52.5°	1435.4	1413.1	1432.8	1432.8	1430.2
55°	925.0	944.7	984.1	1019.5	1053.6
57.5°	586.5	612.7	673.1	719.0	730.8
60°	335.9	355.6	397.6	438.2	446.1
62.5°	211.2	212.6	240.1	263.7	278.2
65°	110.2	107.6	116.8	128.6	137.8
67.5°	45.9	45.9	55.1	53.8	68.2
70°	23.6	19.7	22.3	26.2	30.2
72.5°	17.1	13.1	18.4	23.6	10.5
75°	7.9	11.8	14.4	10.5	13.1
77.5°	10.5	10.5	7.9	13.1	2.6
80°	7.9	5.2	9.2	3.9	0.0
82.5°	1.3	2.6	1.3	1.3	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.9	6.6	5.2	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)