

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: P247823

Luminaire Tested: **LD8B150D010 ER8B150935 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150935 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12797.0 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

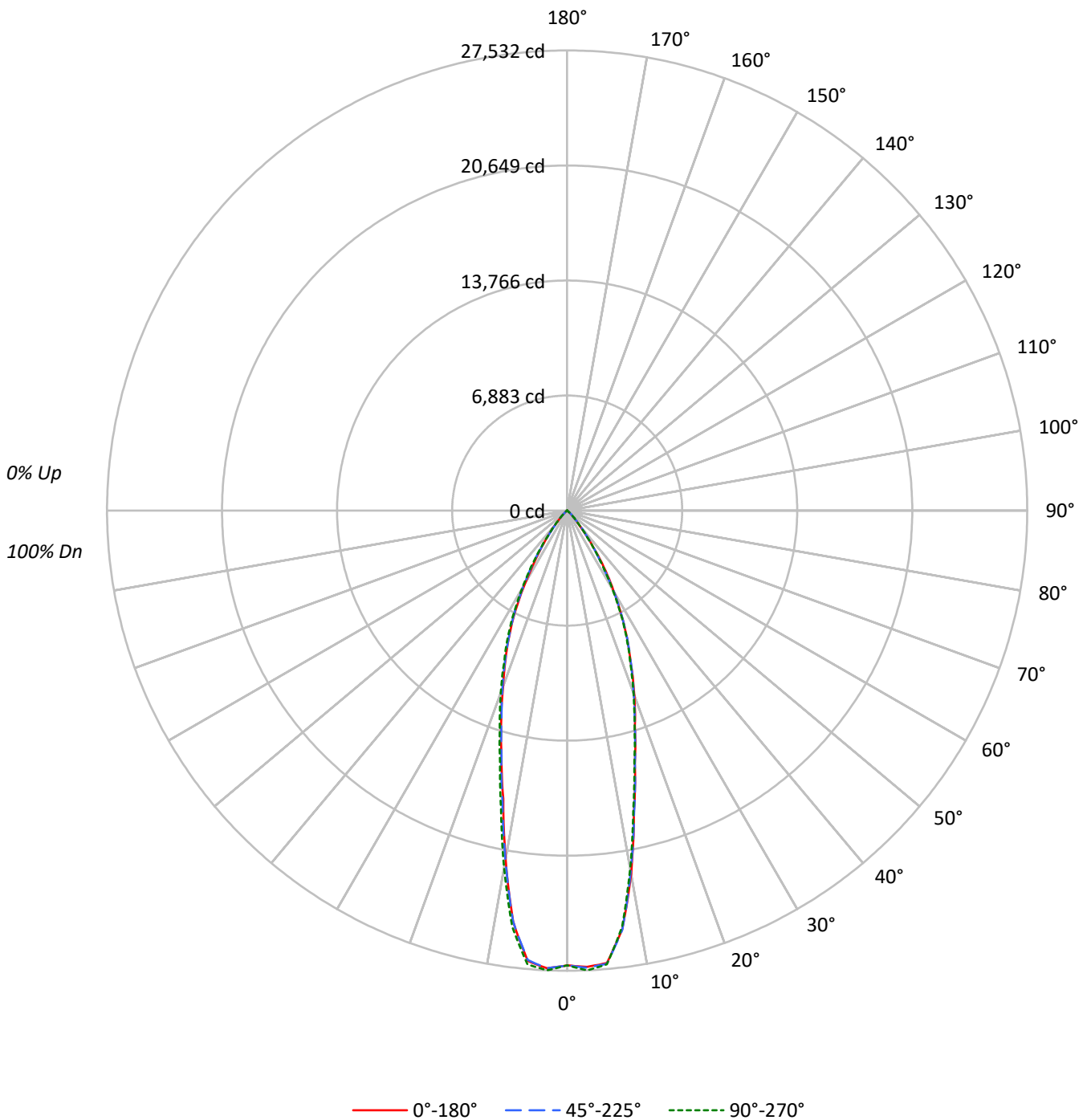
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95				95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90				90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85				85
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80				80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76				76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72				72
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69				69
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65				65
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62				62
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60				60

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

	0°	90°	180°
0°	839016	839016	839016
5°	841243	843462	837469
10°	690759	679837	662907
15°	500516	495424	484017
20°	386125	380864	368299
25°	289947	286493	276949
30°	197856	192330	177300
35°	111845	107060	98007
40°	45004	46787	45036
45°	18556	19040	17627
50°	5646	5565	4049
55°	1602	1194	823
60°	1264	1159	315
65°	562	1182	248
70°	307	613	0
75°	1728	1013	715
80°	1367	604	1669
85°	1804	3326	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2405.0	18.8
10°-20°	4358.1	34.1
20°-30°	3797.4	29.7
30°-40°	1808.7	14.1
40°-50°	375.8	2.9
50°-60°	29.9	0.2
60°-70°	11.6	0.1
70°-80°	5.1	0.0
80°-90°	5.4	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°	10560.5	82.5
0°-40°	12369.2	96.7
0°-60°	12774.9	99.8
0°-90°	12797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12797.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	27209	27209	27209	27209	27209	
5°	27177	27221	27249	26993	27055	###
15°	15678	15680	15519	15197	15162	4428
25°	8522	8513	8420	8167	8140	3874
35°	2971	2870	2844	2700	2604	1902
45°	426	471	437	391	404	376
55°	30	23	22	20	15	33
65°	8	13	16	5	3	11
75°	14	9	8	10	6	7
85°	5	5	9	6	13	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°	27208.7	27208.7	27208.7	27208.7	27208.7	27208.7	27208.7	27208.7	27208.7
2.5°	27327.2	27332.3	27375.0	27496.9	27531.9	27504.6	27412.5	27379.2	27412.5
5°	27177.1	27159.2	27220.6	27311.0	27248.8	27137.1	26992.9	26959.7	27055.2
7.5°	25253.3	25241.3	25299.3	25292.5	25127.9	24917.3	24797.0	24702.4	24784.2
10°	22060.5	21953.9	21915.5	21982.9	21711.7	21420.9	21247.8	21311.7	21171.0
12.5°	18466.0	18451.5	18519.7	18437.0	18280.1	18101.9	17889.5	17775.3	17672.9
15°	15678.3	15716.7	15680.0	15645.9	15518.8	15384.9	15197.3	15118.0	15161.5
17.5°	13490.1	13479.0	13440.6	13497.7	13399.7	13207.8	13043.2	13071.4	13119.1
20°	11766.6	11719.7	11629.3	11653.2	11606.3	11457.1	11307.0	11206.3	11223.4
22.5°	9990.3	10031.2	10020.1	9949.3	9876.0	9766.8	9693.5	9562.2	9623.6
25°	8521.8	8528.6	8513.3	8503.0	8420.3	8315.4	8167.0	8135.5	8139.8
27.5°	7019.2	7051.6	7038.8	6995.3	6911.8	6823.9	6731.8	6659.3	6652.5
30°	5556.7	5602.7	5511.5	5449.2	5401.5	5386.1	5231.8	5123.5	4979.4
32.5°	4299.7	4231.5	3940.7	3941.5	4034.5	4071.2	3923.6	3678.0	3637.9
35°	2971.1	2959.1	2870.4	2843.2	2844.0	2808.2	2699.9	2604.4	2603.5
37.5°	1862.5	1906.8	1956.3	1945.2	1836.0	1725.2	1673.1	1729.4	1745.6
40°	1118.0	1176.0	1235.7	1242.5	1162.3	1034.4	1018.2	1070.2	1118.8
42.5°	700.1	724.9	764.9	772.6	715.5	668.6	638.7	676.3	676.3
45°	425.5	448.6	470.7	472.4	436.6	397.4	391.4	405.9	404.2
47.5°	250.7	251.6	260.1	254.1	242.2	223.4	215.8	223.4	225.1
50°	117.7	115.1	119.4	130.5	116.0	98.1	99.8	93.8	84.4
52.5°	28.1	25.6	30.7	33.3	32.4	34.1	32.4	32.4	24.7
55°	29.8	18.8	23.0	23.9	22.2	23.9	20.5	13.6	15.3
57.5°	20.5	21.3	21.3	23.9	20.5	25.6	21.3	15.3	17.1
60°	20.5	14.5	13.6	23.0	18.8	12.8	14.5	19.6	5.1
62.5°	15.3	14.5	16.2	23.0	16.2	18.8	14.5	23.0	15.3
65°	7.7	12.8	12.8	12.8	16.2	14.5	5.1	10.2	3.4
67.5°	11.1	6.0	5.1	11.1	13.6	9.4	4.3	4.3	7.7
70°	3.4	5.1	2.6	6.0	6.8	6.0	4.3	0.9	0.0
72.5°	6.0	2.6	6.0	5.1	8.5	6.0	5.1	4.3	3.4
75°	14.5	11.1	9.4	10.2	8.5	5.1	10.2	10.2	6.0
77.5°	0.0	0.0	1.7	0.0	0.0	0.0	0.9	0.0	0.0
80°	7.7	6.0	6.0	6.0	3.4	5.1	2.6	0.9	9.4
82.5°	7.7	9.4	9.4	4.3	11.1	6.8	6.0	1.7	9.4
85°	5.1	9.4	5.1	4.3	9.4	7.7	6.0	2.6	12.8
87.5°	0.0	5.1	5.1	3.4	5.1	1.7	4.3	2.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)