

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: P247811

Luminaire Tested: **LD8B150D010 ER8B150840 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247811  
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 ER8B150840 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14908.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 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

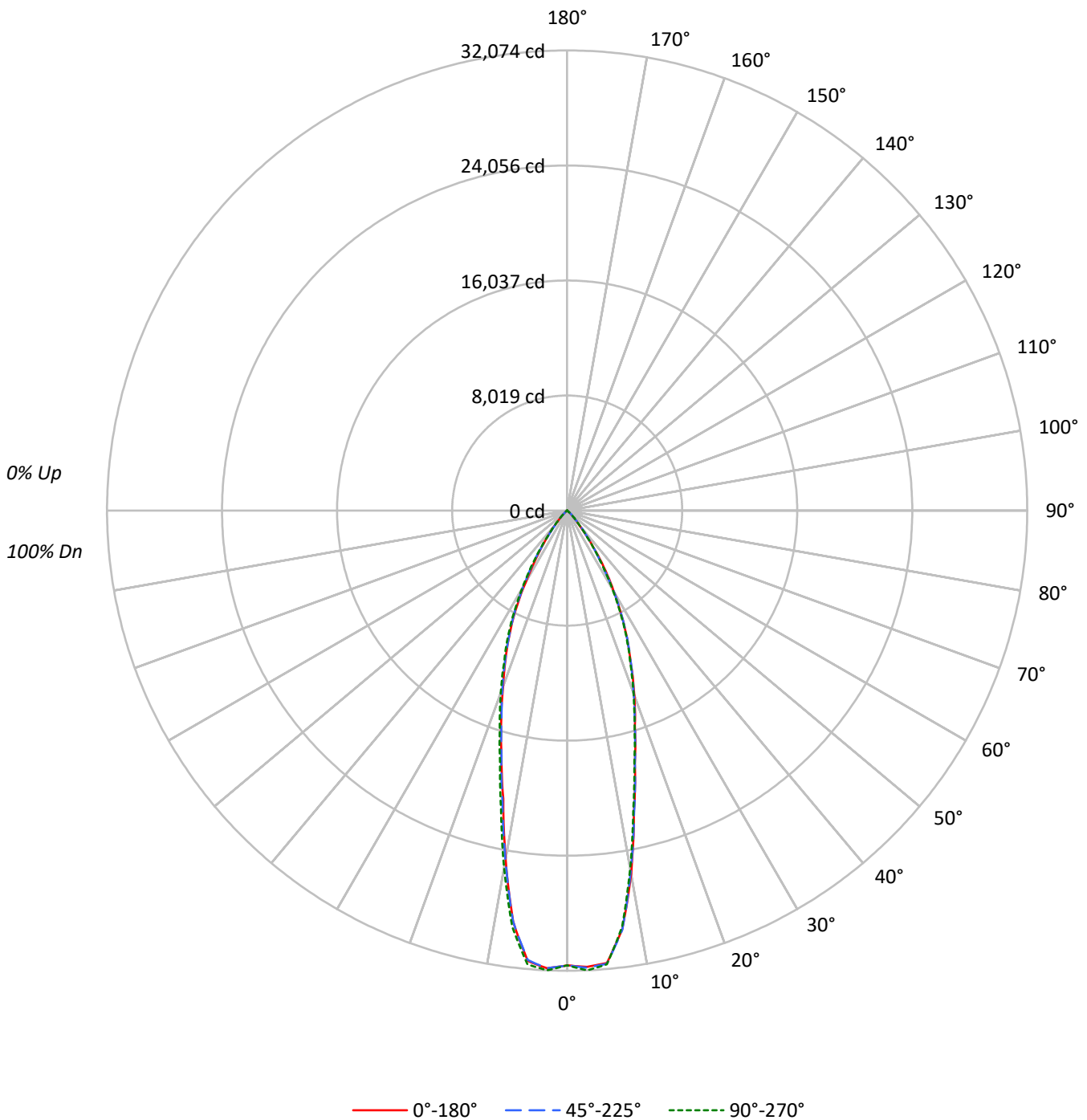
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	977419	977419	977419
5°	980016	982598	975618
10°	804706	791984	772261
15°	583081	577149	563863
20°	449819	443693	429054
25°	337778	333753	322634
30°	230493	224055	206547
35°	130294	124723	114175
40°	52427	54508	52467
45°	21617	22180	20536
50°	6577	6481	4721
55°	1871	1387	962
60°	1468	1351	370
65°	649	1379	292
70°	361	712	0
75°	2014	1180	834
80°	1580	710	1936
85°	2123	3856	5272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2801.7	18.8
10°-20°	5077.1	34.1
20°-30°	4423.8	29.7
30°-40°	2107.1	14.1
40°-50°	437.8	2.9
50°-60°	34.8	0.2
60°-70°	13.5	0.1
70°-80°	6.0	0.0
80°-90°	6.2	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°	12302.6	82.5
0°-40°	14409.7	96.7
0°-60°	14882.3	99.8
0°-90°	14908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14908.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	31697	31697	31697	31697	31697	
5°	31660	31711	31744	31446	31518	###
15°	18265	18267	18079	17704	17663	5158
25°	9928	9918	9809	9514	9482	4513
35°	3461	3344	3313	3145	3033	2216
45°	496	548	509	456	471	438
55°	35	27	26	24	18	38
65°	9	15	19	6	4	13
75°	17	11	10	12	7	8
85°	6	6	11	7	15	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°	31697.0	31697.0	31697.0	31697.0	31697.0	31697.0	31697.0	31697.0	31697.0
2.5°	31835.1	31841.1	31890.8	32032.8	32073.6	32041.8	31934.5	31895.7	31934.5
5°	31660.3	31639.4	31711.0	31816.3	31743.7	31613.6	31445.7	31407.0	31518.2
7.5°	29419.1	29405.2	29472.7	29464.8	29273.0	29027.6	28887.6	28777.3	28872.7
10°	25699.6	25575.4	25530.7	25609.2	25293.3	24954.5	24752.8	24827.3	24663.4
12.5°	21512.2	21495.3	21574.8	21478.4	21295.6	21088.0	20840.6	20707.5	20588.3
15°	18264.6	18309.3	18266.6	18226.8	18078.8	17922.8	17704.3	17611.9	17662.6
17.5°	15715.4	15702.5	15657.8	15724.3	15610.1	15386.6	15194.8	15227.6	15283.2
20°	13707.6	13653.0	13547.7	13575.5	13520.9	13347.0	13172.2	13054.9	13074.8
22.5°	11638.3	11686.0	11673.0	11590.6	11505.2	11378.0	11292.6	11139.6	11211.1
25°	9927.6	9935.5	9917.6	9905.7	9809.3	9687.1	9514.3	9477.5	9482.5
27.5°	8177.1	8214.8	8199.9	8149.3	8051.9	7949.6	7842.3	7757.9	7749.9
30°	6473.3	6527.0	6420.7	6348.2	6292.5	6274.6	6094.8	5968.7	5800.8
32.5°	5009.0	4929.5	4590.7	4591.7	4700.0	4742.7	4570.9	4284.8	4238.1
35°	3461.2	3447.3	3344.0	3312.2	3313.2	3271.4	3145.3	3034.0	3033.0
37.5°	2169.7	2221.4	2279.0	2266.1	2138.9	2009.8	1949.2	2014.7	2033.6
40°	1302.4	1370.0	1439.5	1447.5	1354.1	1205.1	1186.2	1246.8	1303.4
42.5°	815.6	844.4	891.1	900.1	833.5	778.9	744.1	787.8	787.8
45°	495.7	522.6	548.4	550.4	508.6	462.9	456.0	472.9	470.9
47.5°	292.1	293.1	303.0	296.0	282.1	260.3	251.3	260.3	262.3
50°	137.1	134.1	139.1	152.0	135.1	114.2	116.2	109.3	98.4
52.5°	32.8	29.8	35.8	38.7	37.8	39.7	37.8	37.8	28.8
55°	34.8	21.9	26.8	27.8	25.8	27.8	23.8	15.9	17.9
57.5°	23.8	24.8	24.8	27.8	23.8	29.8	24.8	17.9	19.9
60°	23.8	16.9	15.9	26.8	21.9	14.9	16.9	22.8	6.0
62.5°	17.9	16.9	18.9	26.8	18.9	21.9	16.9	26.8	17.9
65°	8.9	14.9	14.9	14.9	18.9	16.9	6.0	11.9	4.0
67.5°	12.9	7.0	6.0	12.9	15.9	10.9	5.0	5.0	8.9
70°	4.0	6.0	3.0	7.0	7.9	7.0	5.0	1.0	0.0
72.5°	7.0	3.0	7.0	6.0	9.9	7.0	6.0	5.0	4.0
75°	16.9	12.9	10.9	11.9	9.9	6.0	11.9	11.9	7.0
77.5°	0.0	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0
80°	8.9	7.0	7.0	7.0	4.0	6.0	3.0	1.0	10.9
82.5°	8.9	10.9	10.9	5.0	12.9	7.9	7.0	2.0	10.9
85°	6.0	10.9	6.0	5.0	10.9	8.9	7.0	3.0	14.9
87.5°	0.0	6.0	6.0	4.0	6.0	2.0	5.0	3.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)