

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: P247815

Luminaire Tested: **LD8B175D010 ER8B175850 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247815  
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: LD8B175D010 ER8B175850 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17161.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 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

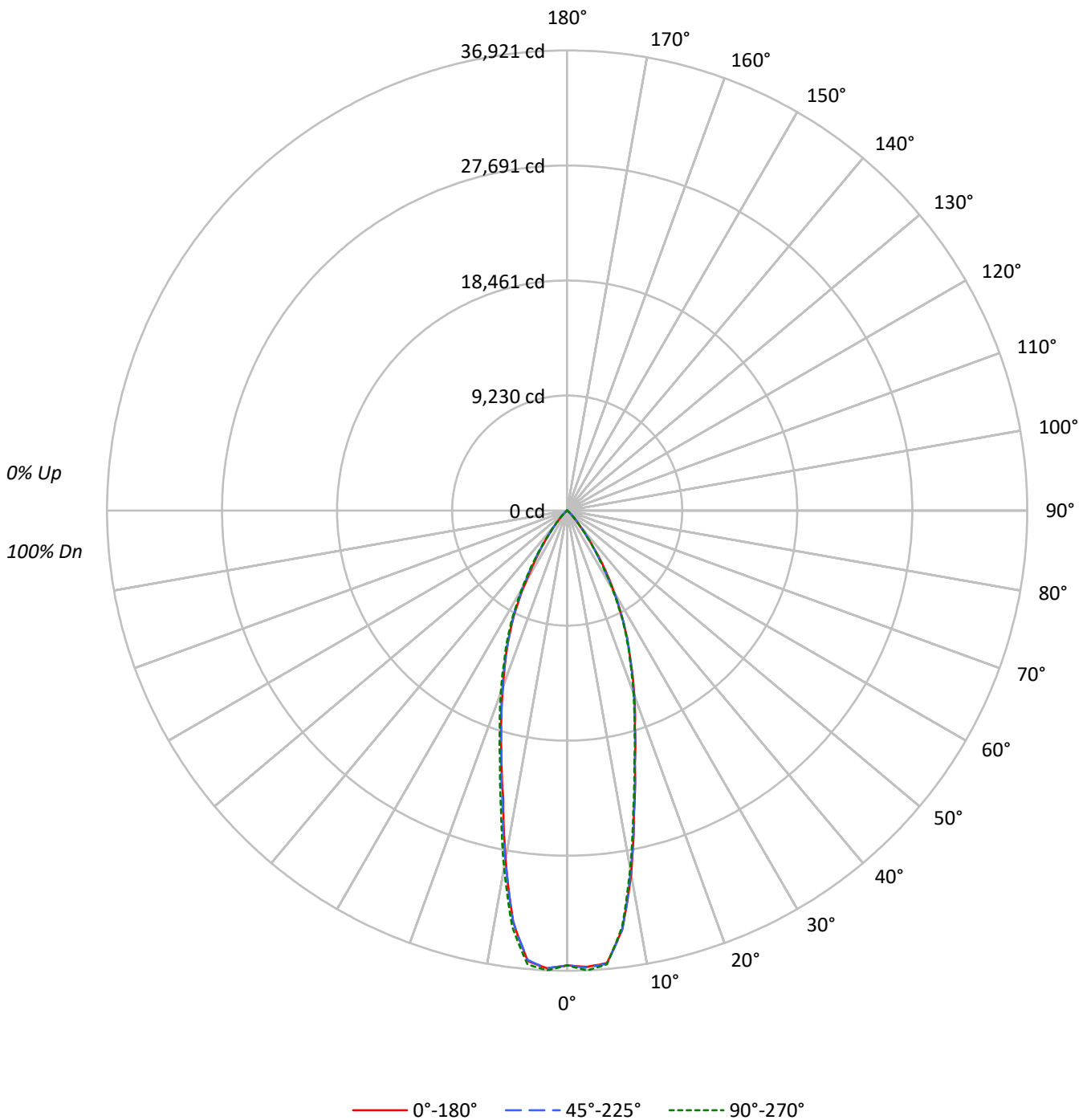
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1125134	1125134	1125134
5°	1128122	1131097	1123061
10°	926319	911674	888970
15°	671201	664372	649078
20°	517800	510744	493897
25°	388824	384193	371390
30°	265327	257917	237760
35°	149986	143571	131431
40°	60349	62744	60397
45°	24888	25533	23641
50°	7570	7460	5431
55°	2150	1597	1107
60°	1690	1554	426
65°	752	1583	336
70°	415	820	0
75°	2311	1358	953
80°	1829	817	2237
85°	2441	4458	6085



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3225.1	18.8
10°-20°	5844.4	34.1
20°-30°	5092.3	29.7
30°-40°	2425.5	14.1
40°-50°	504.0	2.9
50°-60°	40.1	0.2
60°-70°	15.5	0.1
70°-80°	6.9	0.0
80°-90°	7.2	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°	14161.8	82.5
0°-40°	16587.4	96.7
0°-60°	17131.4	99.8
0°-90°	17161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	36487	36487	36487	36487	36487	
5°	36445	36503	36541	36198	36282	###
15°	21025	21027	20811	20380	20332	5938
25°	11428	11416	11292	10952	10916	5195
35°	3984	3849	3814	3621	3491	2551
45°	571	631	586	525	542	504
55°	40	31	30	27	21	44
65°	10	17	22	7	5	15
75°	19	13	11	14	8	9
85°	7	7	13	8	17	6
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°	36487.3	36487.3	36487.3	36487.3	36487.3	36487.3	36487.3	36487.3	36487.3
2.5°	36646.3	36653.1	36710.3	36873.9	36920.7	36884.1	36760.6	36716.0	36760.6
5°	36445.0	36421.0	36503.3	36624.5	36541.1	36391.3	36198.0	36153.4	36281.5
7.5°	33865.1	33849.1	33926.8	33917.7	33697.0	33414.5	33253.3	33126.3	33236.1
10°	29583.5	29440.5	29389.1	29479.4	29115.8	28725.8	28493.6	28579.4	28390.7
12.5°	24763.3	24743.8	24835.3	24724.4	24514.0	24274.9	23990.2	23836.9	23699.7
15°	21024.9	21076.3	21027.2	20981.4	20811.0	20631.5	20379.9	20273.5	20331.9
17.5°	18090.4	18075.6	18024.1	18100.7	17969.2	17711.9	17491.2	17528.9	17593.0
20°	15779.2	15716.3	15595.1	15627.1	15564.2	15364.1	15162.8	15027.9	15050.8
22.5°	13397.1	13452.0	13437.2	13342.2	13243.9	13097.5	12999.2	12823.1	12905.4
25°	11427.9	11437.0	11416.4	11402.7	11291.8	11151.1	10952.1	10909.8	10915.5
27.5°	9412.9	9456.3	9439.2	9380.9	9268.8	9151.0	9027.5	8930.3	8921.1
30°	7451.6	7513.4	7391.0	7307.5	7243.5	7222.9	7015.9	6870.7	6677.4
32.5°	5766.0	5674.5	5284.5	5285.7	5410.3	5459.5	5261.6	4932.3	4878.5
35°	3984.3	3968.3	3849.3	3812.7	3813.9	3765.8	3620.6	3492.5	3491.4
37.5°	2497.6	2557.1	2623.4	2608.5	2462.1	2313.5	2243.7	2319.2	2340.9
40°	1499.2	1577.0	1657.1	1666.2	1558.7	1387.2	1365.4	1435.2	1500.4
42.5°	938.9	972.0	1025.8	1036.1	959.5	896.6	856.5	906.9	906.9
45°	570.7	601.5	631.3	633.5	585.5	532.9	524.9	544.3	542.1
47.5°	336.2	337.4	348.8	340.8	324.8	299.6	289.3	299.6	301.9
50°	157.8	154.4	160.1	175.0	155.5	131.5	133.8	125.8	113.2
52.5°	37.7	34.3	41.2	44.6	43.5	45.7	43.5	43.5	33.2
55°	40.0	25.2	30.9	32.0	29.7	32.0	27.4	18.3	20.6
57.5°	27.4	28.6	28.6	32.0	27.4	34.3	28.6	20.6	22.9
60°	27.4	19.4	18.3	30.9	25.2	17.2	19.4	26.3	6.9
62.5°	20.6	19.4	21.7	30.9	21.7	25.2	19.4	30.9	20.6
65°	10.3	17.2	17.2	17.2	21.7	19.4	6.9	13.7	4.6
67.5°	14.9	8.0	6.9	14.9	18.3	12.6	5.7	5.7	10.3
70°	4.6	6.9	3.4	8.0	9.1	8.0	5.7	1.1	0.0
72.5°	8.0	3.4	8.0	6.9	11.4	8.0	6.9	5.7	4.6
75°	19.4	14.9	12.6	13.7	11.4	6.9	13.7	13.7	8.0
77.5°	0.0	0.0	2.3	0.0	0.0	0.0	1.1	0.0	0.0
80°	10.3	8.0	8.0	8.0	4.6	6.9	3.4	1.1	12.6
82.5°	10.3	12.6	12.6	5.7	14.9	9.1	8.0	2.3	12.6
85°	6.9	12.6	6.9	5.7	12.6	10.3	8.0	3.4	17.2
87.5°	0.0	6.9	6.9	4.6	6.9	2.3	5.7	3.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)