

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: P247828

Luminaire Tested: **LD8B200D010 ER8B200940 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247828
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: LD8B200D010 ER8B200940 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17787.0 lumens
Efficiency: N/A
Efficacy: 79.7 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

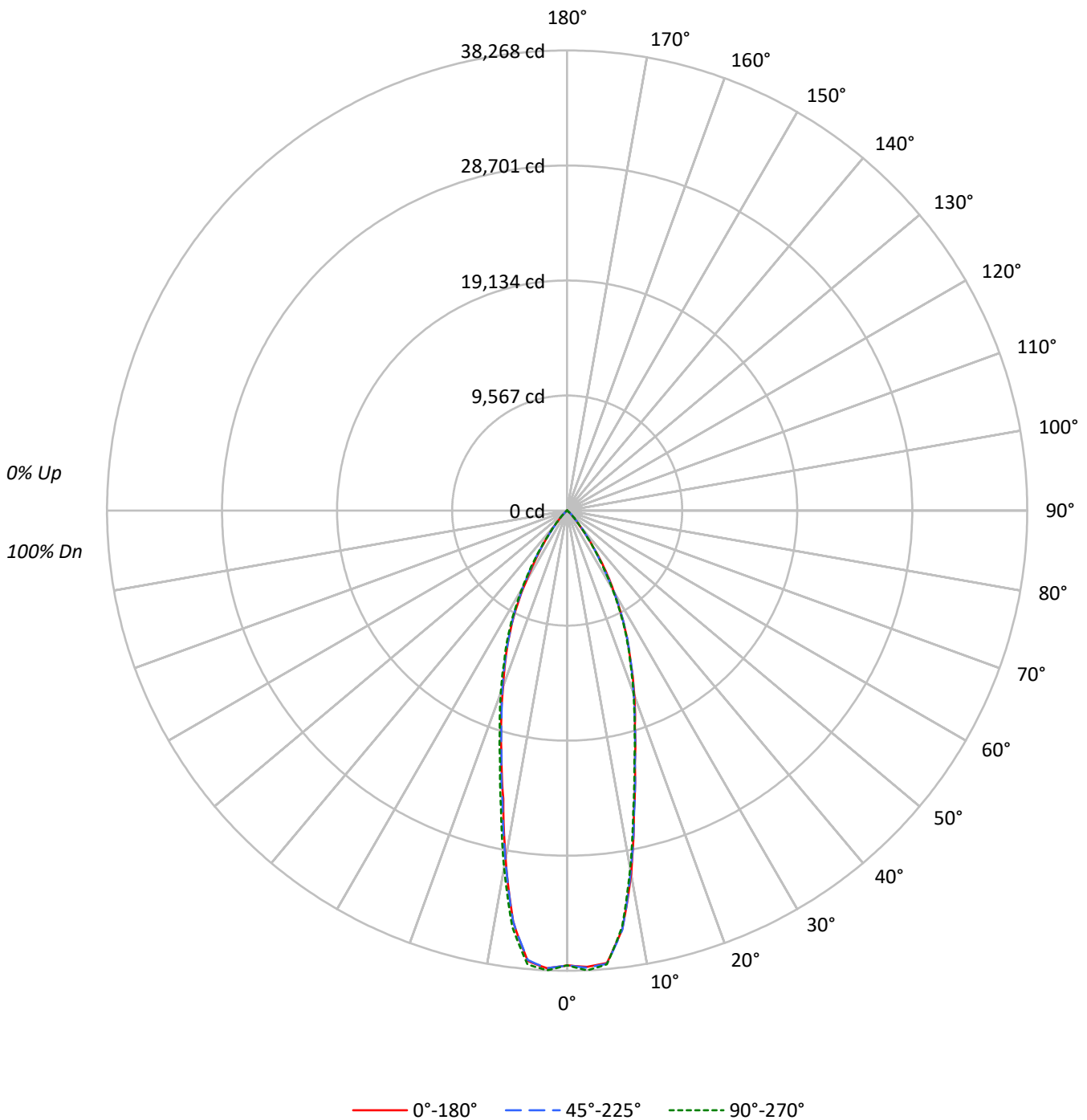
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1166177	1166177	1166177
5°	1169273	1172356	1164029
10°	960108	944928	921400
15°	695684	688609	672753
20°	536688	529377	511912
25°	403005	398208	384939
30°	275005	267324	246434
35°	155455	148807	136223
40°	62551	65034	62599
45°	25795	26466	24500
50°	7848	7733	5627
55°	2231	1656	1145
60°	1752	1610	438
65°	781	1642	343
70°	424	857	0
75°	2407	1418	989
80°	1900	835	2309
85°	2512	4599	6298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3342.8	18.8
10°-20°	6057.5	34.1
20°-30°	5278.1	29.7
30°-40°	2514.0	14.1
40°-50°	522.4	2.9
50°-60°	41.5	0.2
60°-70°	16.1	0.1
70°-80°	7.1	0.0
80°-90°	7.4	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°	14678.4	82.5
0°-40°	17192.5	96.7
0°-60°	17756.4	99.8
0°-90°	17787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17787.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37818	37818	37818	37818	37818	
5°	37774	37835	37874	37518	37605	###
15°	21792	21794	21570	21123	21074	6154
25°	11845	11833	11704	11352	11314	5385
35°	4130	3990	3953	3753	3619	2644
45°	592	654	607	544	562	523
55°	42	32	31	28	21	45
65°	11	18	22	7	5	16
75°	20	13	12	14	8	10
85°	7	7	13	8	18	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°	37818.3	37818.3	37818.3	37818.3	37818.3	37818.3	37818.3	37818.3	37818.3
2.5°	37983.1	37990.2	38049.4	38218.9	38267.5	38229.6	38101.6	38055.4	38101.6
5°	37774.4	37749.6	37834.9	37960.5	37874.0	37718.7	37518.4	37472.2	37605.0
7.5°	35100.4	35083.8	35164.4	35154.9	34926.2	34633.4	34466.3	34334.7	34448.5
10°	30662.6	30514.5	30461.1	30554.8	30177.8	29773.6	29533.0	29621.9	29426.4
12.5°	25666.6	25646.4	25741.2	25626.3	25408.2	25160.4	24865.3	24706.5	24564.2
15°	21791.8	21845.2	21794.2	21746.8	21570.2	21384.1	21123.3	21013.1	21073.5
17.5°	18750.3	18734.9	18681.6	18761.0	18624.7	18358.0	18129.2	18168.3	18234.7
20°	16354.8	16289.6	16164.0	16197.2	16132.0	15924.6	15715.9	15576.1	15599.8
22.5°	13885.8	13942.7	13927.3	13828.9	13727.0	13575.3	13473.3	13290.8	13376.2
25°	11844.7	11854.2	11832.9	11818.7	11703.7	11557.9	11351.7	11307.8	11313.7
27.5°	9756.2	9801.3	9783.5	9723.0	9606.9	9484.8	9356.8	9256.0	9246.6
30°	7723.4	7787.4	7660.6	7574.1	7507.7	7486.4	7271.8	7121.3	6921.0
32.5°	5976.3	5881.5	5477.3	5478.5	5607.7	5658.6	5453.6	5112.2	5056.5
35°	4129.6	4113.0	3989.7	3951.8	3953.0	3903.2	3752.7	3619.9	3618.7
37.5°	2588.7	2650.3	2719.1	2703.7	2552.0	2397.9	2325.6	2403.8	2426.3
40°	1553.9	1634.5	1717.5	1727.0	1615.6	1437.8	1415.3	1487.6	1555.1
42.5°	973.1	1007.5	1063.2	1073.9	994.5	929.3	887.8	939.9	939.9
45°	591.5	623.5	654.3	656.7	606.9	552.4	544.1	564.2	561.8
47.5°	348.5	349.7	361.5	353.2	336.6	310.5	299.9	310.5	312.9
50°	163.6	160.0	165.9	181.4	161.2	136.3	138.7	130.4	117.3
52.5°	39.1	35.6	42.7	46.2	45.0	47.4	45.0	45.0	34.4
55°	41.5	26.1	32.0	33.2	30.8	33.2	28.4	19.0	21.3
57.5°	28.4	29.6	29.6	33.2	28.4	35.6	29.6	21.3	23.7
60°	28.4	20.2	19.0	32.0	26.1	17.8	20.2	27.3	7.1
62.5°	21.3	20.2	22.5	32.0	22.5	26.1	20.2	32.0	21.3
65°	10.7	17.8	17.8	17.8	22.5	20.2	7.1	14.2	4.7
67.5°	15.4	8.3	7.1	15.4	19.0	13.0	5.9	5.9	10.7
70°	4.7	7.1	3.6	8.3	9.5	8.3	5.9	1.2	0.0
72.5°	8.3	3.6	8.3	7.1	11.9	8.3	7.1	5.9	4.7
75°	20.2	15.4	13.0	14.2	11.9	7.1	14.2	14.2	8.3
77.5°	0.0	0.0	2.4	0.0	0.0	0.0	1.2	0.0	0.0
80°	10.7	8.3	8.3	8.3	4.7	7.1	3.6	1.2	13.0
82.5°	10.7	13.0	13.0	5.9	15.4	9.5	8.3	2.4	13.0
85°	7.1	13.0	7.1	5.9	13.0	10.7	8.3	3.6	17.8
87.5°	0.0	7.1	7.1	4.7	7.1	2.4	5.9	3.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)